

	NO. NO.	LINE 3	LINE 4	LINE 5	DRAWING TITLE LINE 6
			GENERAL		
	B4990-B	UPRR/SR99 - (AVE 21)	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 2
	B4991-B B4992-B	UPRR/SR99 - (AVE 21) UPRR/SR99 - (AVE 21)	GENERAL GENERAL	INDEX OF DRAWINGS ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 2 OF 2 SHEET 1 OF 1
	B5000-B	UPRR/SR99 - (AVE 21)	OLINAL	INDEX MAP	SHEET 1 OF 2
	B5001-B	UPRR/SR99 - (AVE 21)		INDEX MAP	SHEET 2 OF 2
		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2 GRADE SEPARATION - ROAD 17 1/2	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MAINLINE/WYE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	KEY MAP	SHEET 1 OF 1
	CB5005-B	UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 22	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 - (AVE 21) UPRR/SR99 - (AVE 21)	GRADE SEPARATIONS	TYPICAL CROSS SECTIONS GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
	C14331 D	OFINIT SINGS (AVE 21)		SENERAL STAGE CONSTRUCTION AND THAIT IS FEAR	SHELL I OF I
5	CT5000-B	UPRR/SR99 MAINLINE/WYE - (AVE 21)	LAYOUT GRADE SEPARATION - ROAD 16 ALT 1	LAYOUT	SHEET 1 OF 4
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	LAYOUT	SHEET 2 OF 4
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	LAYOUT	SHEET 3 OF 4
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	LAYOUT	SHEET 4 OF 4
4		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 17 1/2	LAYOUT	SHEET 1 OF 4
4		UPRR/SR99 MAINLINE/WYE - (AVE 21) UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 17 1/2 GRADE SEPARATION - ROAD 17 1/2	L AYOUT L AYOUT	SHEET 2 OF 4 SHEET 3 OF 4
4		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 17 1/2	LAYOUT	SHEET 4 OF 4
3	CT5008-B	UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19	LAYOUT	SHEET 1 OF 4
3		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19	LAYOUT	SHEET 2 OF 4
3		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19	LAYOUT	SHEET 3 OF 4
3 2		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19 GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 4 OF 4
2		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	LAYOUT LAYOUT	SHEET 1 OF 4 SHEET 2 OF 4
2		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 3 OF 4
2		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 4 OF 4
1		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 22	LAYOUT	SHEET 1 OF 3
1		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 22	LAYOUT	SHEET 2 OF 3
6		UPRR/SR99 WYE - (AVE 21) UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 22 GRADE SEPARATION - AVENUE 21 1/2	LAYOUT LAYOUT	SHEET 3 OF 3 SHEET 1 OF 4
6		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	LAYOUT	SHEET 2 OF 4
6		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	LAYOUT	SHEET 3 OF 4
6		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	LAYOUT	SHEET 4 OF 4
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2		SHEET 1 OF 3
5 5		UPRR/SR99 MAINLINE/WYE - (AVE 21) UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2 GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2		SHEET 2 OF 3 SHEET 3 OF 3
64		UPRR MERCED CONNECTION - (AVE 21)	GRADE SEPARATION - ROAD TO ALONG EXIST ALT 2	LAYOUT	SHEET 1 OF 1
			PROF ILE	1	
		UPRR/SR99 - (AVE 21) UPRR/SR99 - (AVE 21)	GRADE SEPARATION GRADE SEPARATION	SUPERELEVATION TEMPLATE SUPERELEVATION TEMPLATE	SHEET 1 OF 4 SHEET 2 OF 4
		UPRR/SR99 - (AVE 21)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		UPRR/SR99 - (AVE 21)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	PROFILE	SHEET 1 OF 4
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	PROFILE	SHEET 2 OF 4
5 5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1 GRADE SEPARATION - ROAD 16 ALT 1	PROFILE PROFILE	SHEET 3 OF 4 SHEET 4 OF 4
4		UPRR/SR99 MAINLINE/WYE - (AVE 21) UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALT 1	PROFILE	SHEET 1 OF 4
4		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 17 1/2	PROFILE	SHEET 2 OF 4
4	CT6006-B	UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 17 1/2	PROF I LE	SHEET 3 OF 4
4		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 17 1/2	PROFILE	SHEET 4 OF 4
3		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19	PROFILE	SHEET 1 OF 4
3		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19 GRADE SEPARATION - ROAD 19	PROFILE PROFILE	SHEET 2 OF 4 SHEET 3 OF 4
3		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 19	PROFILE	SHEET 4 OF 4
2		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 1 OF 4
2	CT6013-B	UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 2 OF 4
2		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 3 OF 4
2		UPRR/SR99 MAINLINE - (AVE 21)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 4 OF 4
1		UPRR/SR99 WYE - (AVE 21) UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 22 GRADE SEPARATION - AVENUE 22	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
1		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 22	PROFILE	SHEET 3 OF 3
6	CT6019-B	UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	PROFILE	SHEET 1 OF 5
6	CT6020-B	UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	PROFILE	SHEET 2 OF 5
6	CT6021-B	UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	PROFILE	SHEET 3 OF 5
6		UPRR/SR99 WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2	PROFILE	SHEET 4 OF 5
6		UPRR/SR99 WYE - (AVE 21) UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - AVENUE 21 1/2 GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2	PROFILE PROFILE	SHEET 5 OF 5 SHEET 1 OF 3
5		OLINIA ON DEE MATINETINE / MILE - (AVE 41)	TOWARD DELAMATION INVARION ALONG EXIST ALL Z	I NOUTE	JULLET I OF J
5		UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2	PROFILE	SHEET 2 OF 3

| S | CT6025-B | UPRR/SR99

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99-(AVE 21) GENERAL INDEX OF DRAWINGS SHEET 1 OF 2

CONTRACT NO. HSRO6-007
DRAWING NO. B4990-B

NONE

SHEET NO.

OF

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LOCATION NO.	SHT DWG NO. NO.	DRAWING TITLE LINE 3	DRAWING TITLE Line 4	DRAWING TITLE LINE 5	DRAWING TITLE Line 6
5	CT6026-B	UPRR/SR99 MAINLINE/WYE - (AVE 21)	GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2	PROFILE	SHEET 3 OF 3
64	CT1149-A	UPRR MERCED CONNECTION - (AVE 21)	GRADE SEPARATION - G STREET	PROF ILE	SHEET 1 OF 1
	CT1477A	BNSF MAIN LINE	AVENUE 24/SR 152/AVENUE 21	ROAD 11 GRADE SEPARATION	PLAN AND PROFILE
	CT1478A	BNSF MAIN LINE	AVENUE 24/SR 152/AVENUE 21	ROAD 11 GRADE SEPARATION	PLAN AND PROFILE
	CT1481A	BNSF MAIN LINE	AVENUE 24/SR 152/AVENUE 21	ROBERTSON BLVD GRADE SEPARATION	PLAN AND PROFILE
	CT1482A	BNSF MAIN LINE	AVENUE 24/SR 152/AVENUE 21	ROBERTSON BLVD GRADE SEPARATION	PLAN AND PROFILE
	CT1484A	BNSF MAIN LINE	AVENUE 24/SR 152/AVENUE 21	ROAD 14 GRADE SEPARATION	PLAN AND PROFILE
	CT1485A	BNSF MAIN LINE	AVENUE 24/SR 152/AVENUE 21	ROAD 14 GRADE SEPARATION	PLAN AND PROFILE
	CT1926	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 9 / HEMLOCK ROAD GRADE SEPARATION
	CT1927	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 9 / HEMLOCK ROAD GRADE SEPARATION
	CT1928	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 9 / HEMLOCK ROAD GRADE SEPARATION
	CT1929	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 11 GRADE SEPARATION
	CT1930	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 11 GRADE SEPARATION
	CT1931	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 11 GRADE SEPARATION
	CT1932	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROBERTSON BLVD GRADE SEPARATION
	CT1933	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROBERTSON BLVD GRADE SEPARATION
	CT1934	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROBERTSON BLVD GRADE SEPARATION
	CT1935	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 14 GRADE SEPARATION
	CT1936	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 14 GRADE SEPARATION
	CT1937	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	ROAD 14 GRADE SEPARATION

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UPRR/SR99-(AVE 21)
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 2

•	CONTRACT NO. HSR06-007					
	DRAWING NO. B4991-B					
	scale NONE					
	SHEET NO. ### OF ###					

MISCELLANEOUS

TOR

ΤK

TYP

TBD

UPRR

VAR

V VERT

TF

ALIGNI	MENT
	HORIZONTAL
BC EC PC PCC PI POB POC POE POT PRC PT R V, DS	BEGINNING OF CURVE END OF CURVE POINT OF CURVE POINT OF COMPOUNT CURVES POINT OF INTERSECTION OF TWO TANGENTS POINT OF BEGINNING POINT ON CURVE POINT OF ENDING POINT ON TANGENT POINT OF REVERSE CURVES POINT OF TANGENCY RADIUS OF CURVATURE IN FEET DESIGN VELOCITY IN MILES PER HOUR
BVC EVC PVC PVI PVT VC	VERTICAL BEGIN OF VERTICAL CURVE END OF VERTICAL CURVE POINT OF VERTICAL CURVE (BEGINNING OF CURVE) POINT OF VERTICAL INTERSECTION (OF TANGENTS) POINT OF VERTICAL TANGENCY (ENDING OF CURVE) VERTICAL CURVE

	MISCELLANEOUS
ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
Œ.	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG EB	DRAWING END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX MIN	MAXIMUM MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND

TOP OF RAIL TRACK
TYPICAL TO BE DETERMINED TELECOMMUNICATIONS FIBER OPTIC UNION PACIFIC RAILROAD VARIES VERTICAL WATER, WEST

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING OR EXISTING RIGHT-OF-WAY BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
G16	GAS LINE (16")
— TC ——	COMMUNICATION LINE
W	WATER LINE
	FIBER OPTIC LINE
——-Е————	ELECTRICAL LINE
X	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
—TC ——	TELEPHONE LINE
———— P12 ———	PETROLEUM LINE (12")
——— (OH) ———	OVERHEAD
	NORTH ARRROW
	PVI
	MBGR
→	DIRECTION OF TRAVEL
250	PROPOSED CONTOUR

						DESIGNED BY R. LI	
						DRAWN BY A. TRINH	
						CHECKED BY A. SILVER	
						IN CHARGE A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 06/30/2011	

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CONSTRUCTION

SHOULDER

SHEET

STREET

STATION

STRUCT, STR STRUCTURE

STANDARD

TANGENT

TELEPHONE

(OH) OVERHEAD LINE (UG) UNDERGROUND LINE

STORM DRAIN

STATE ROUTE

SANITARY SEWER

STOPPING SIGHT DISTANCE

SHLD

SR

SHT

SS

SSD ST

STA

STD

SD

TEL

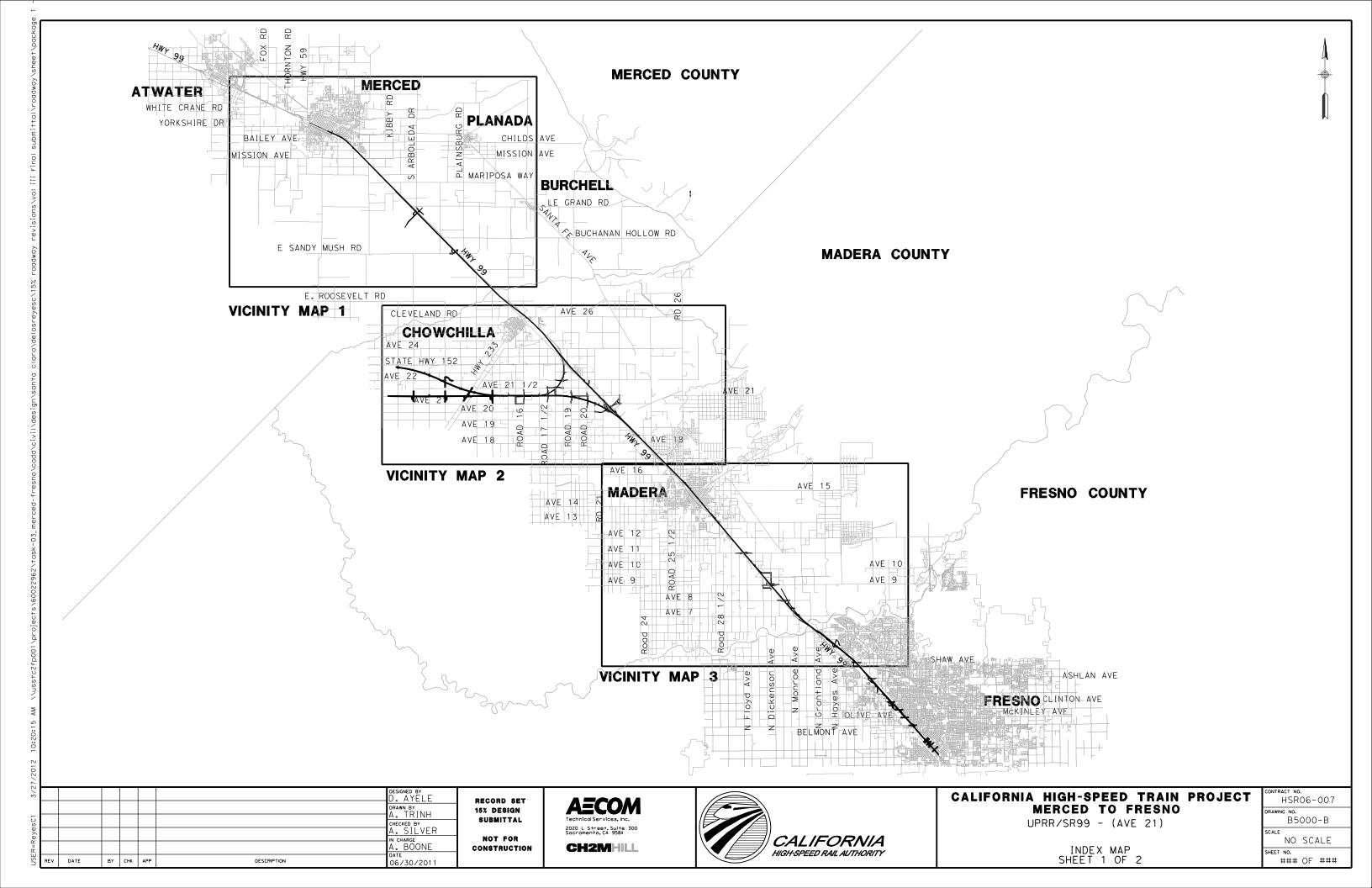
2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**

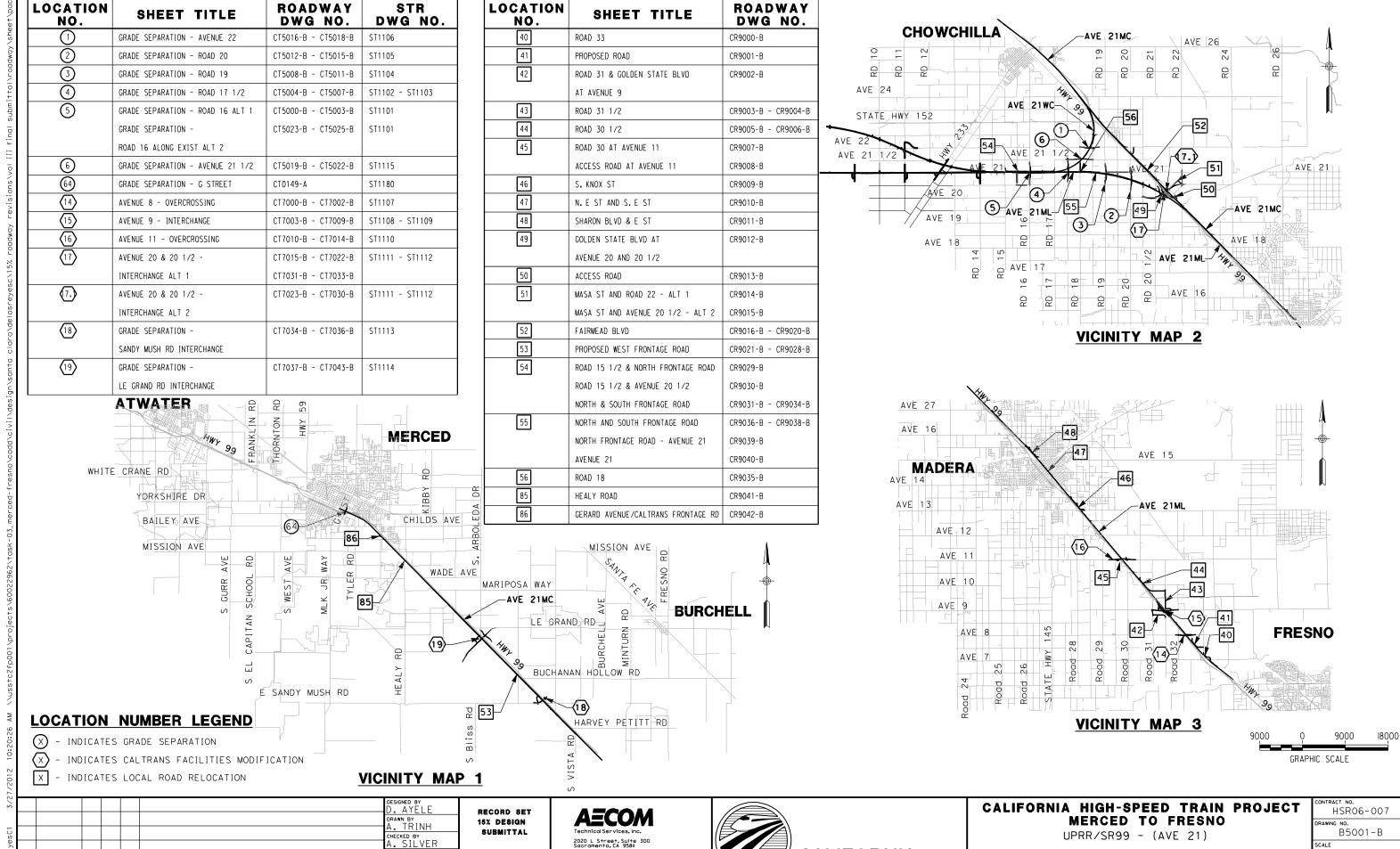


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 - (AVE 21) GENERAL ABBREVIATIONS, SYMBOLS AND NOTES SHEET 1 OF 1

CONTRACT NO. HSRO6-007
DRAWING NO. B4992-B
NO SCALE
SHEET NO. ### OF ###





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N CHARGE N. BOONE

06/30/201

DATE

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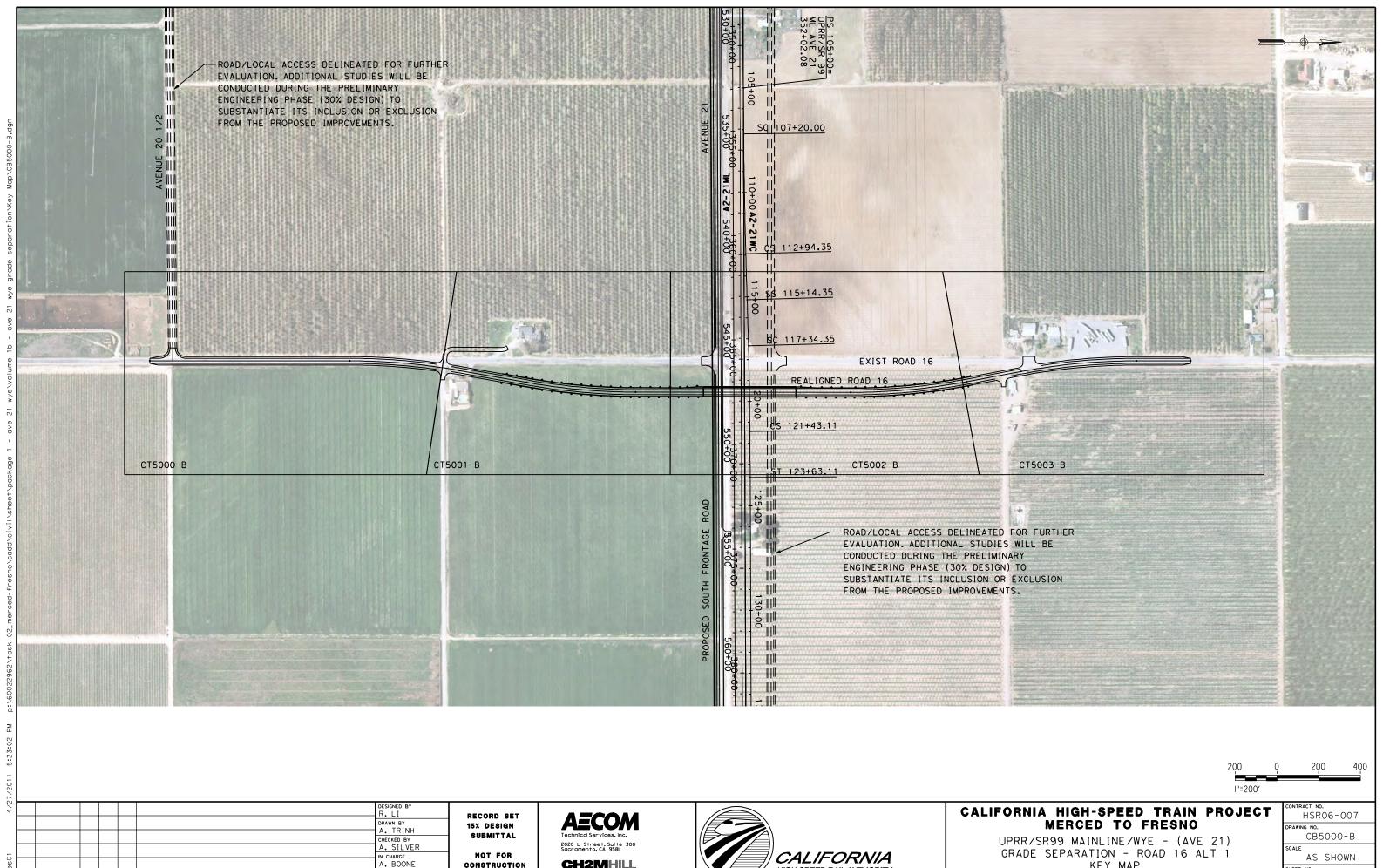
DESCRIPTION

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



INDEX MAP SHEET 2 OF 2

NO SCALE ### OF ###



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04/29/2011

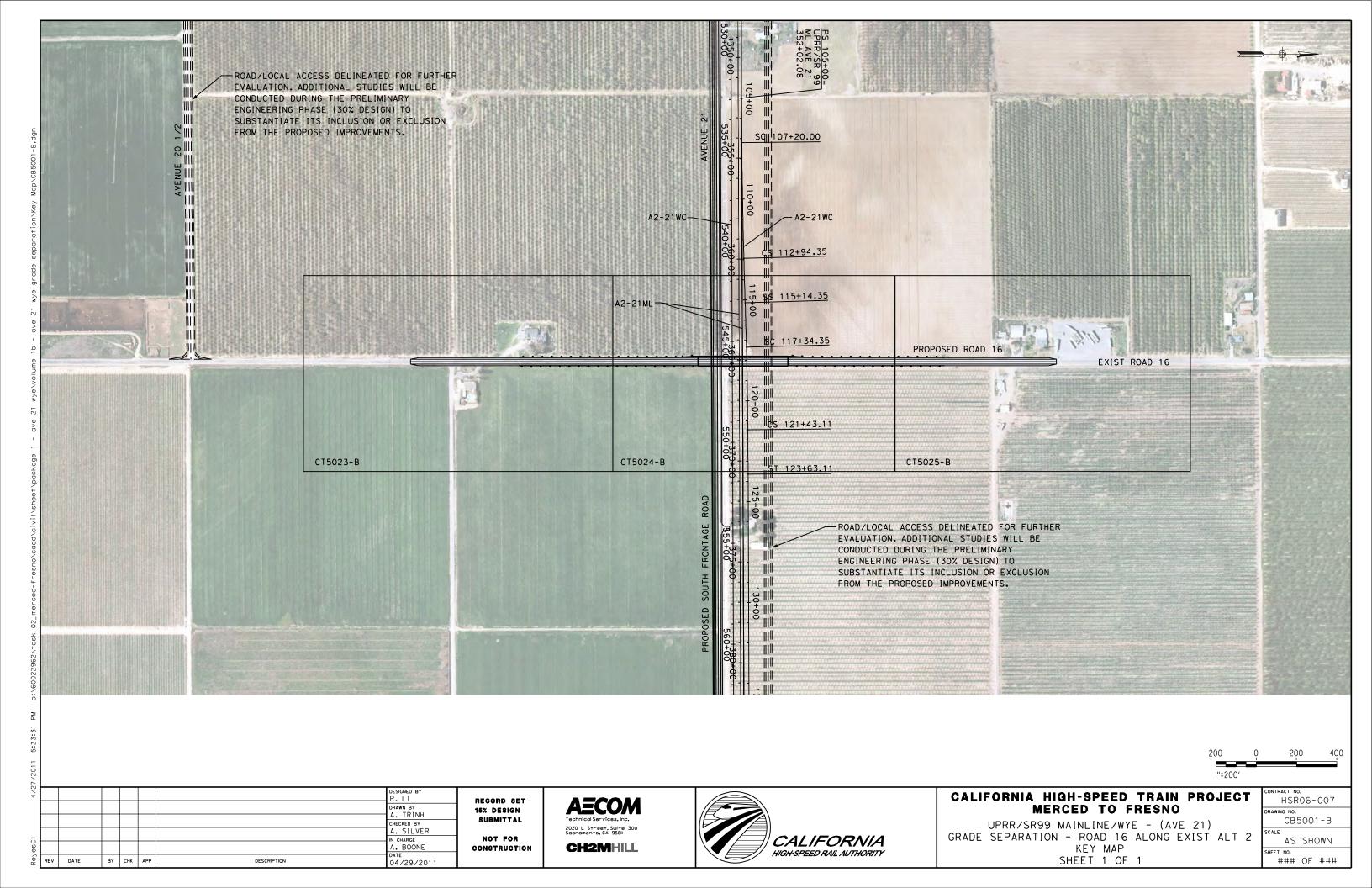
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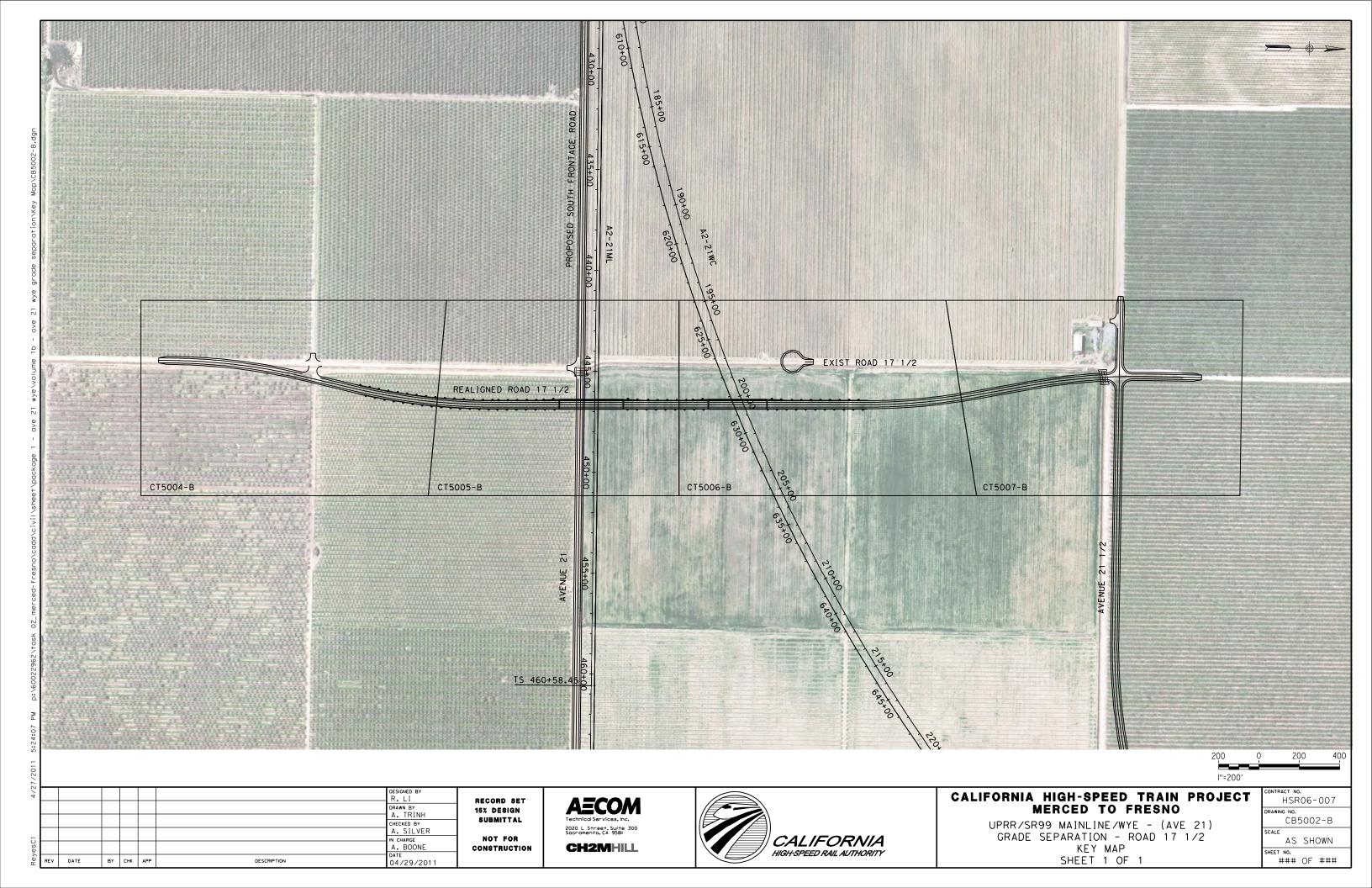


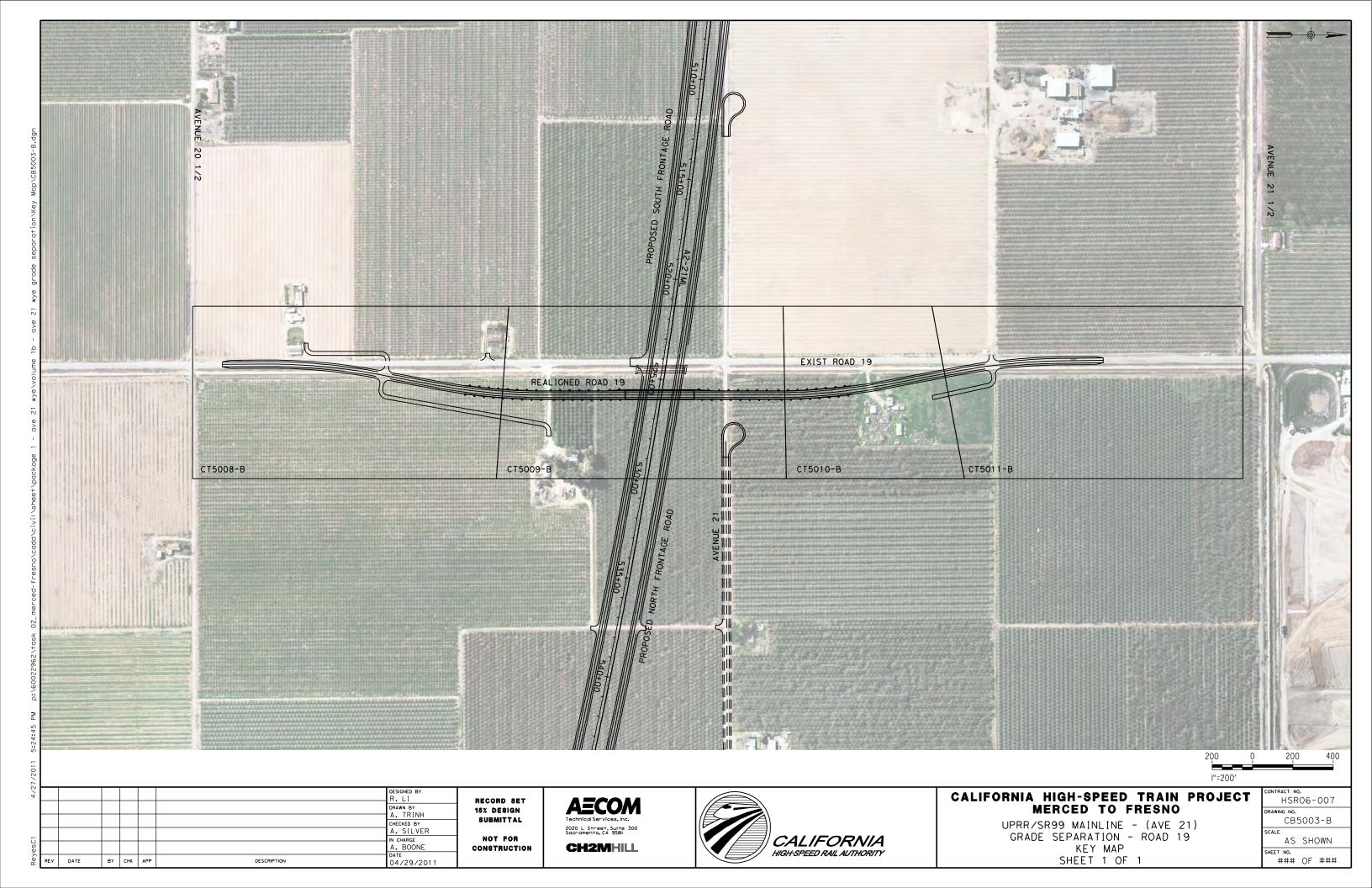
KEY MAP SHEET 1 OF 1

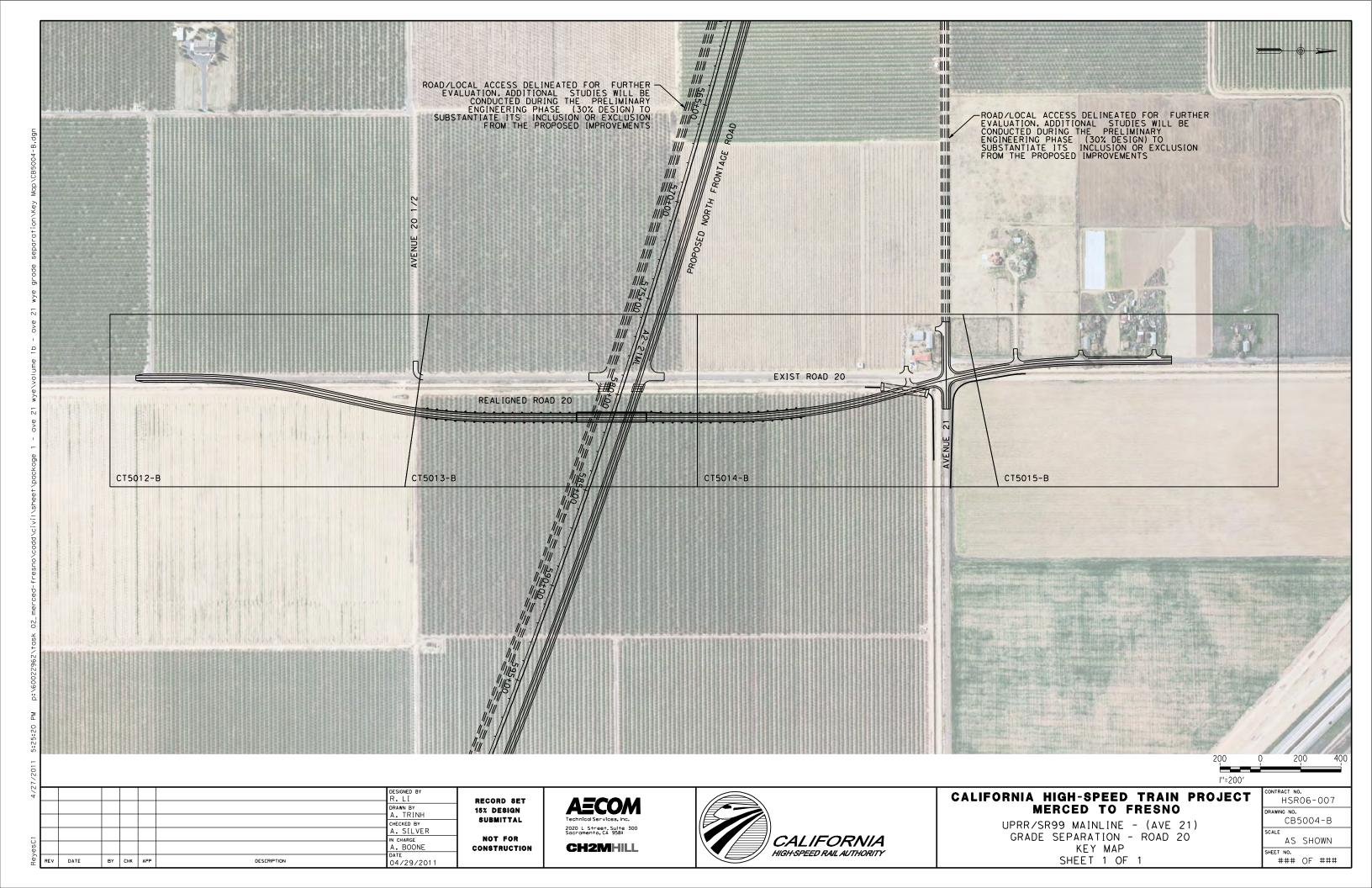
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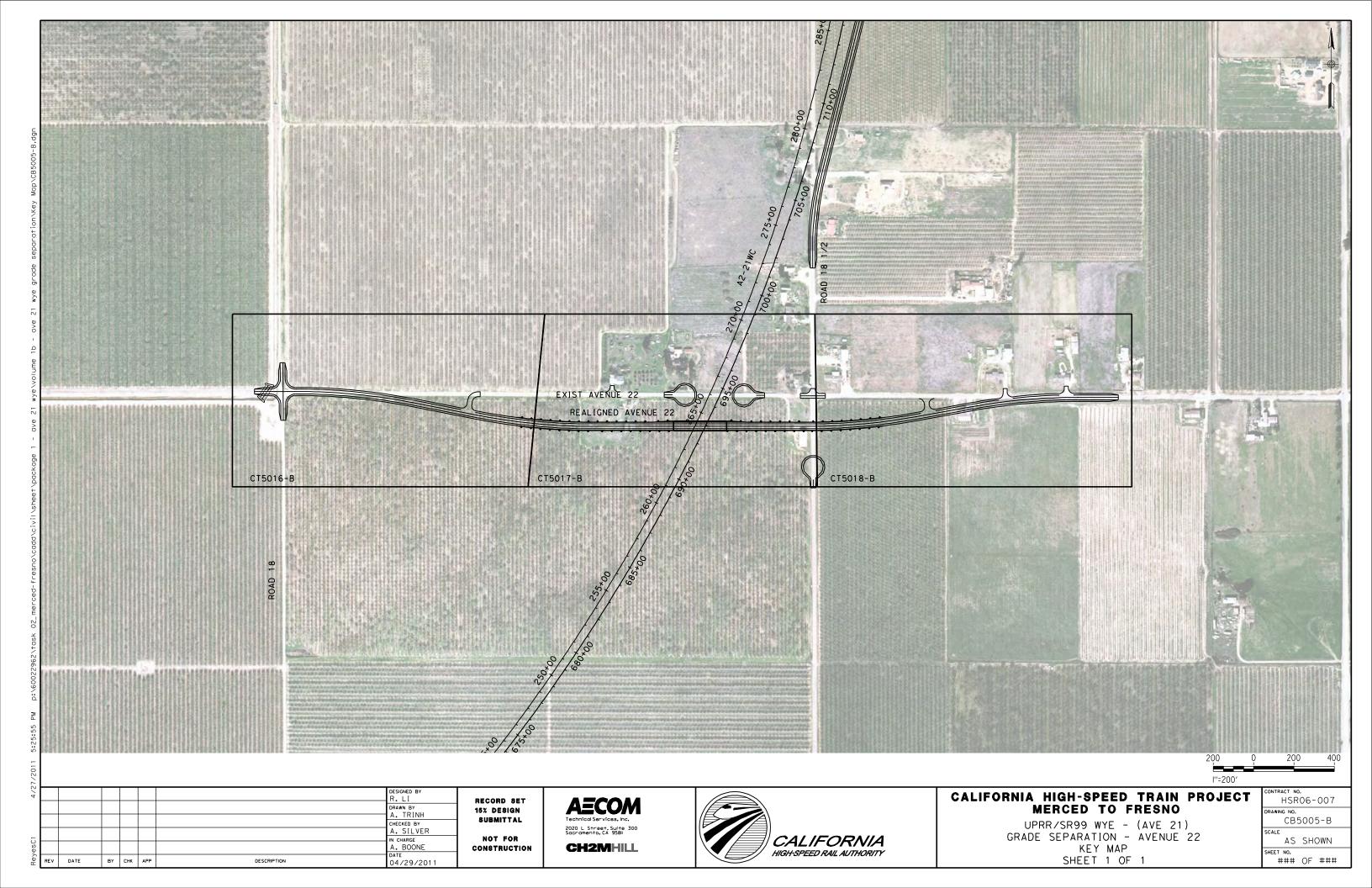
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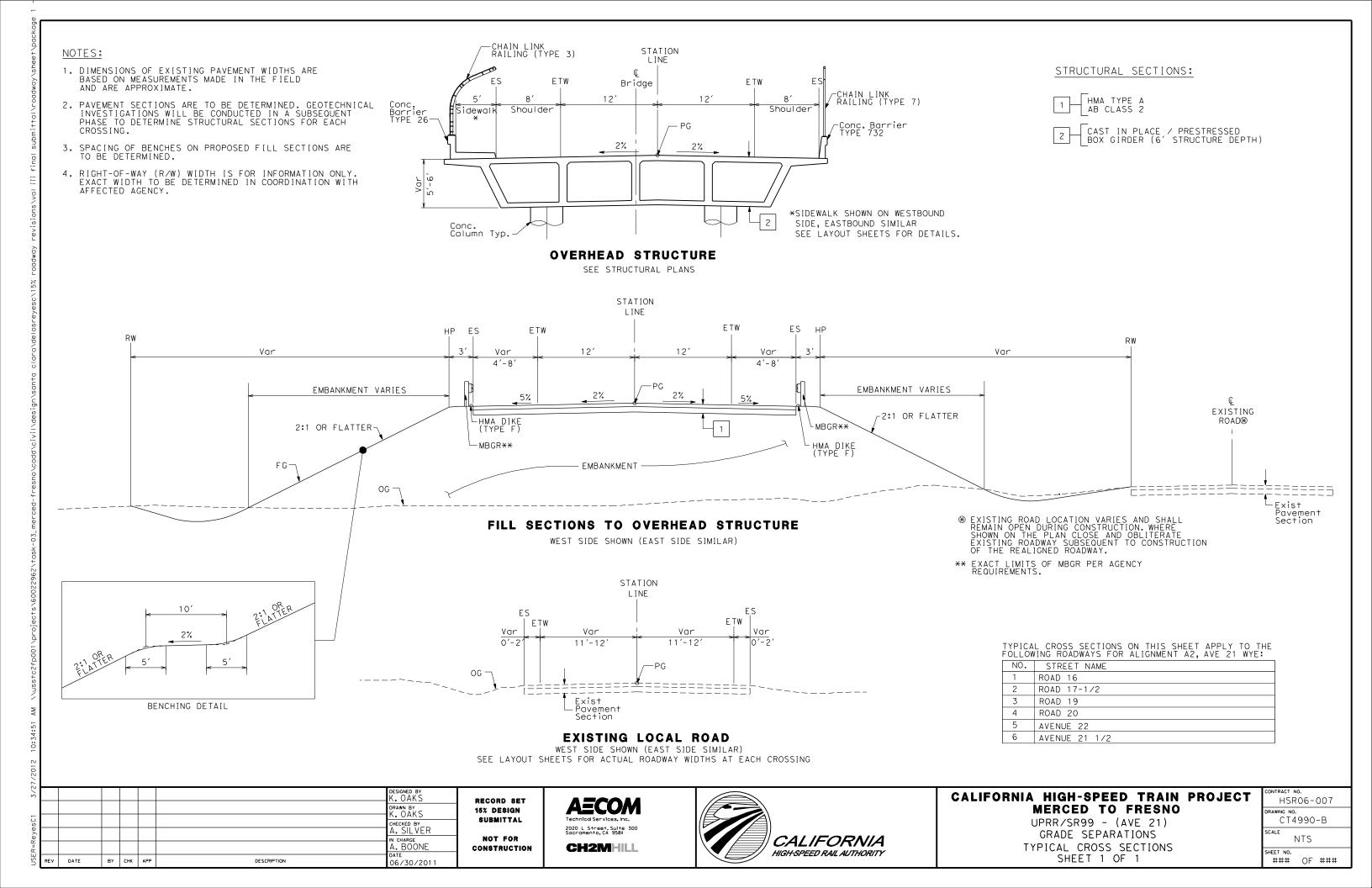


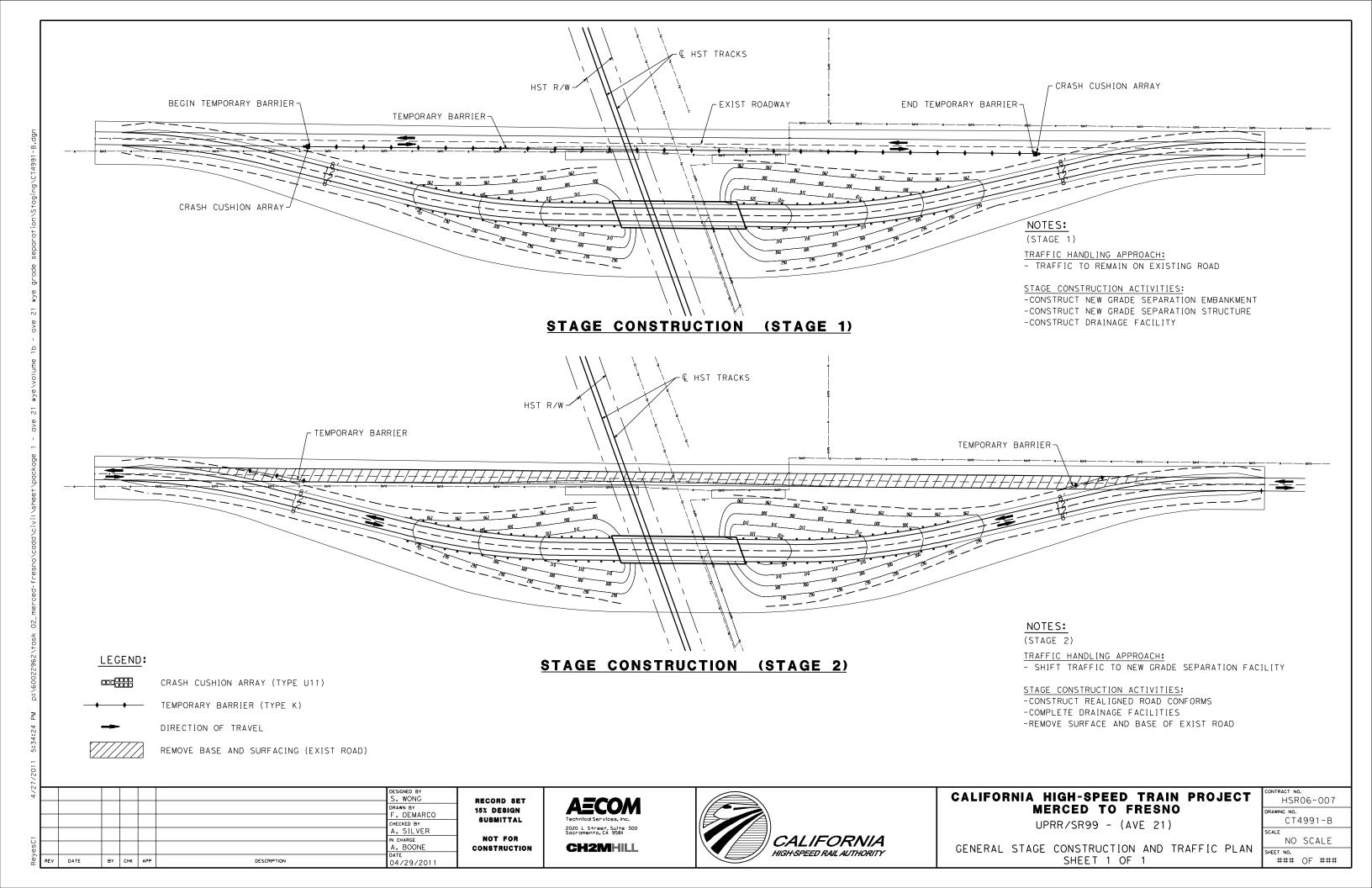


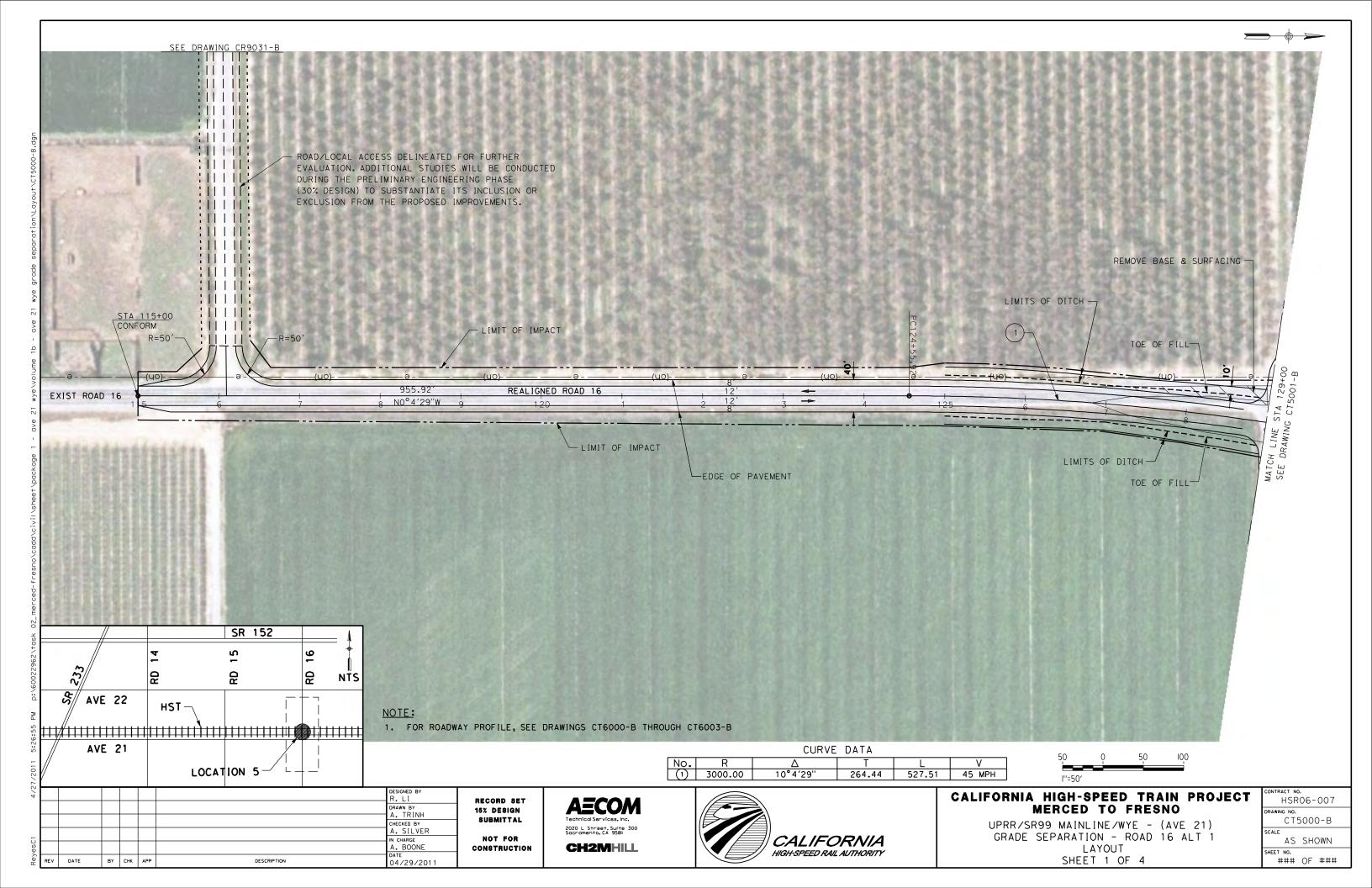


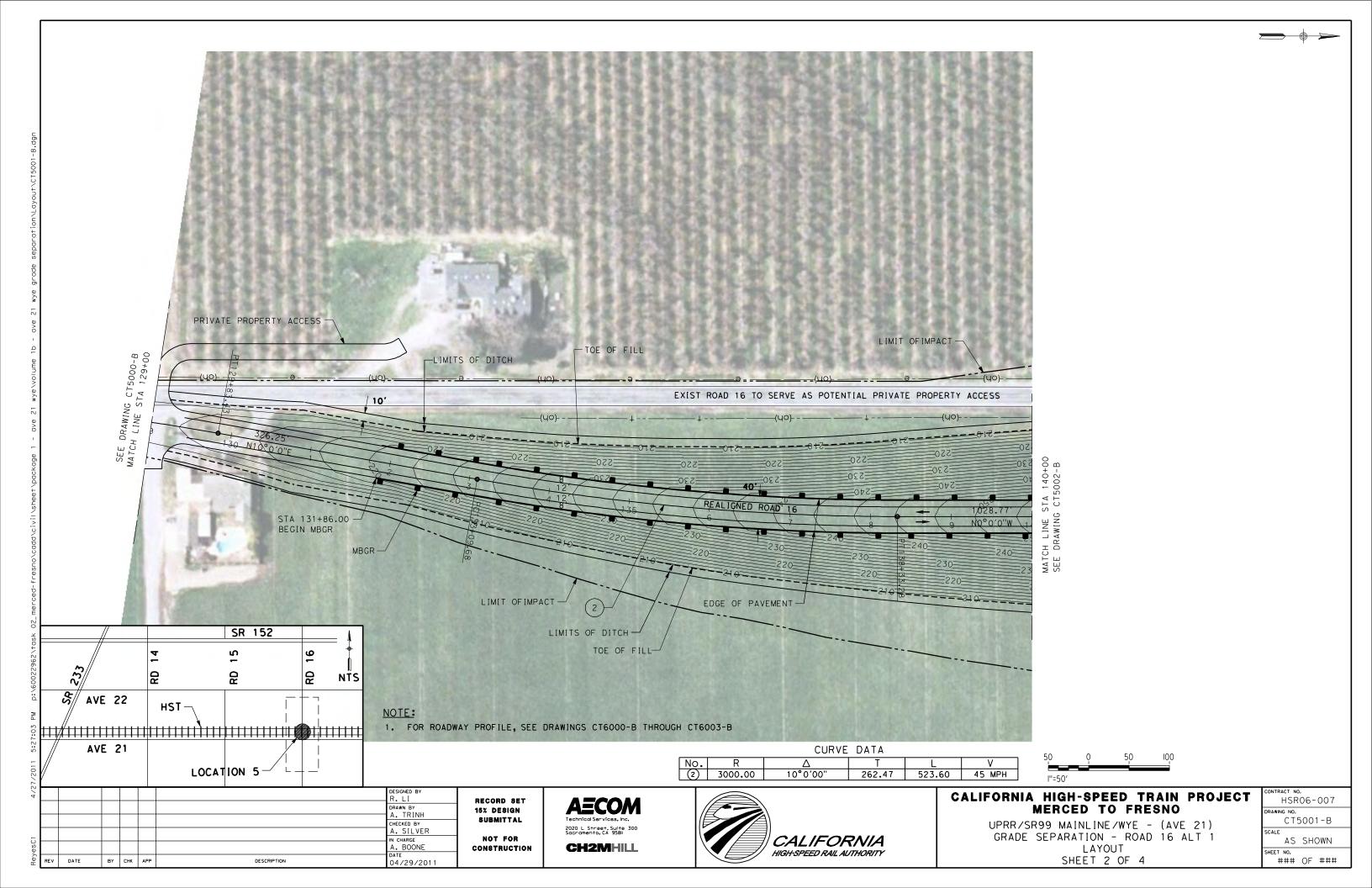


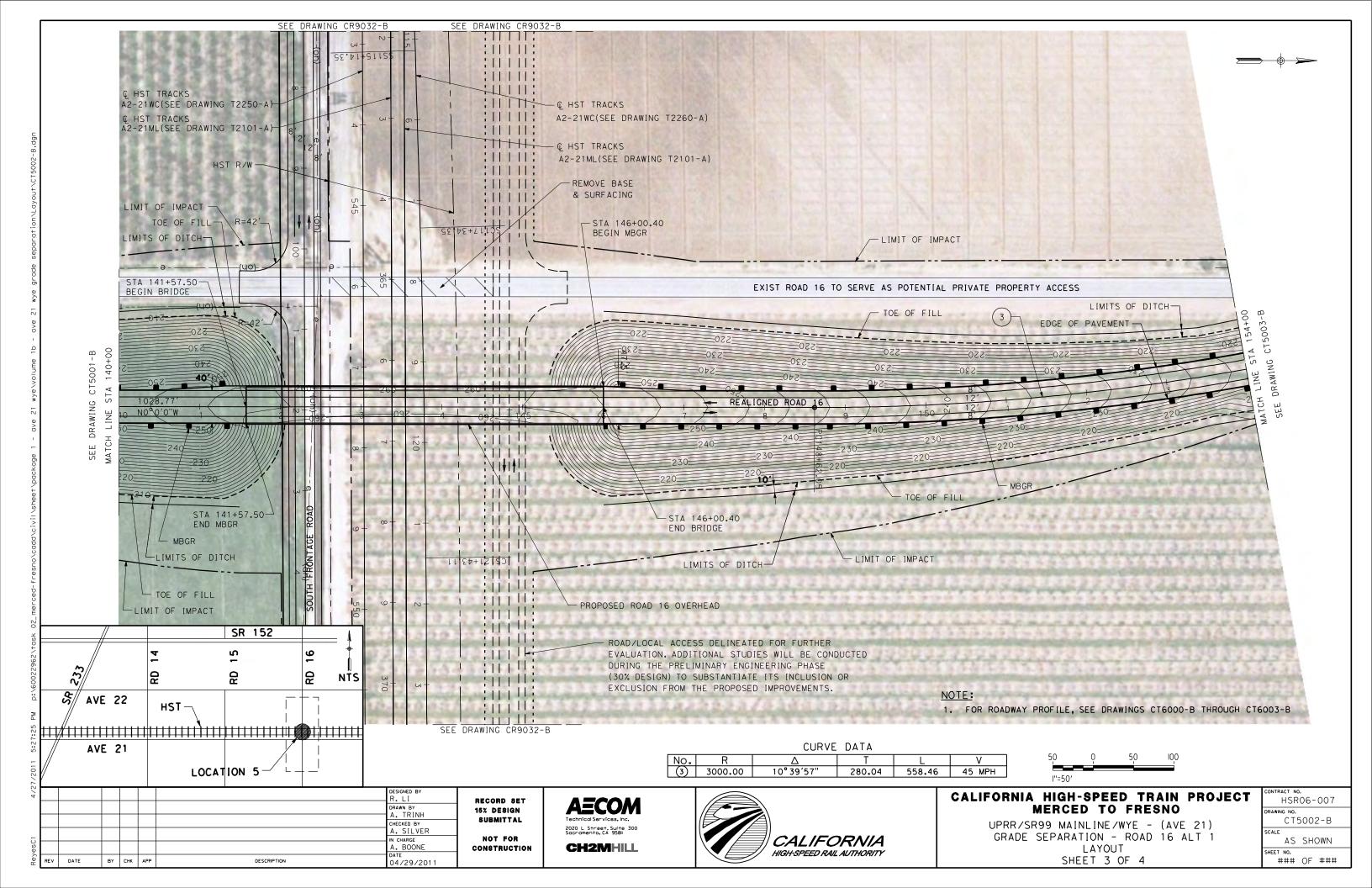


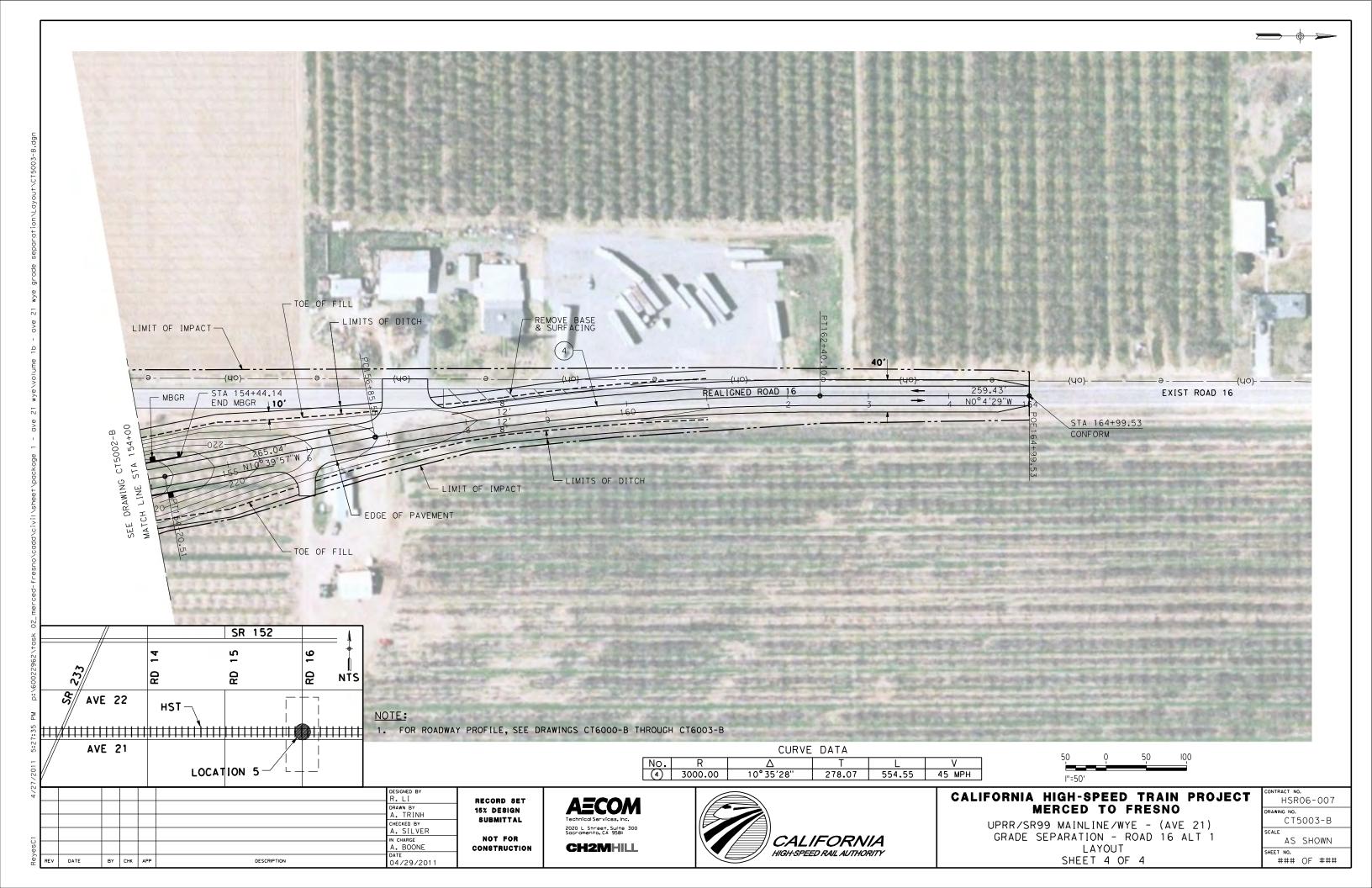


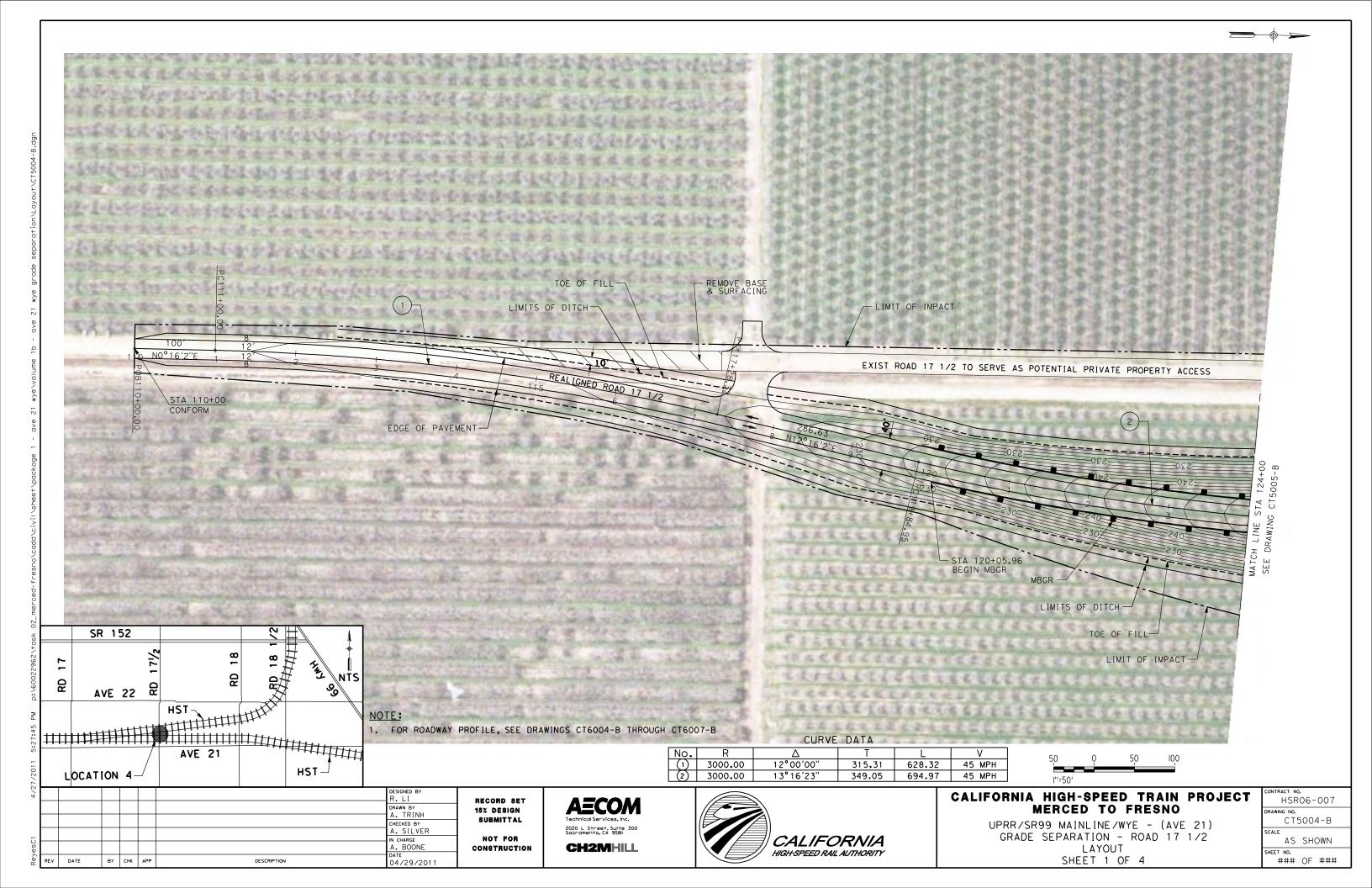


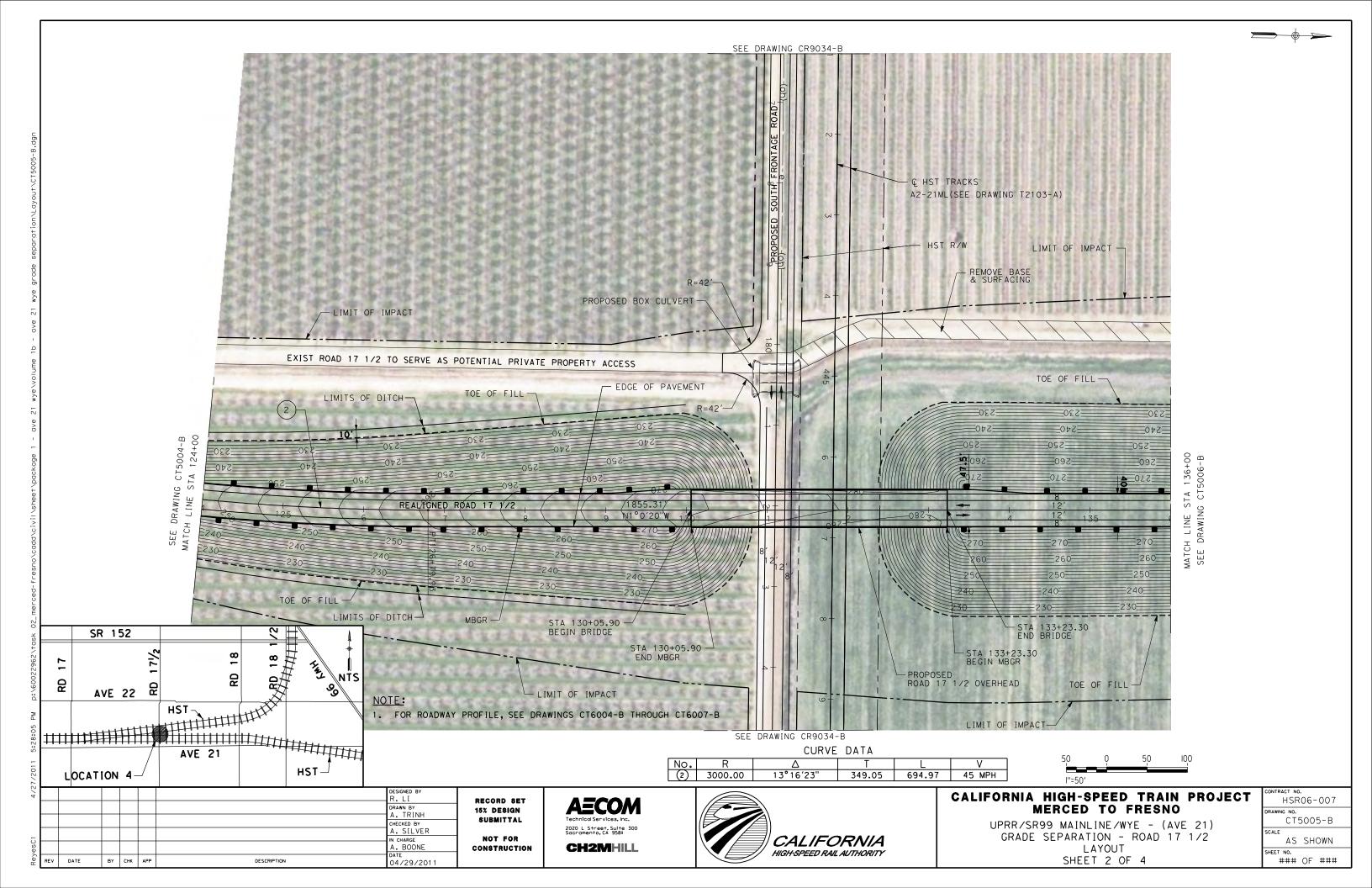


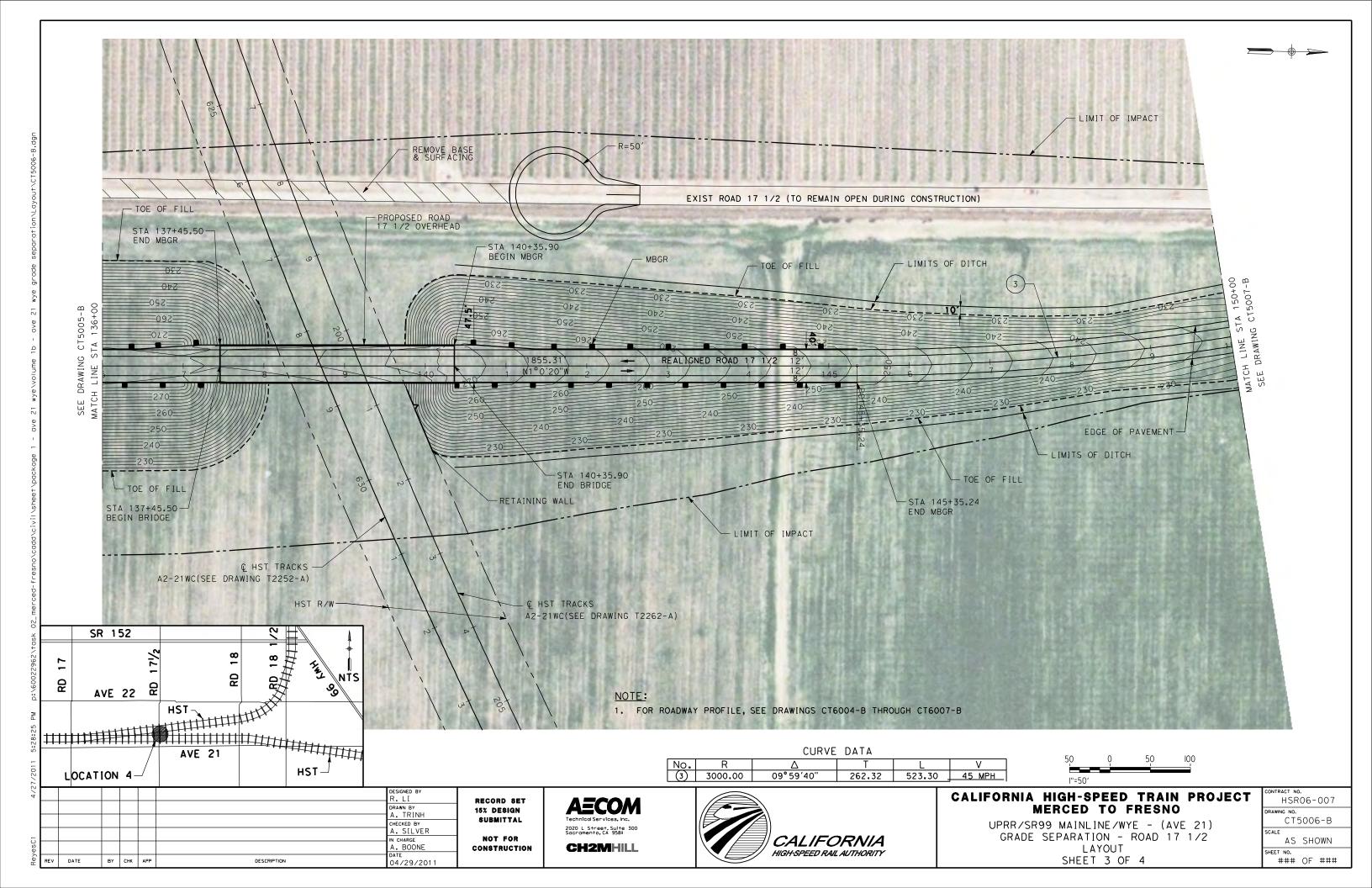




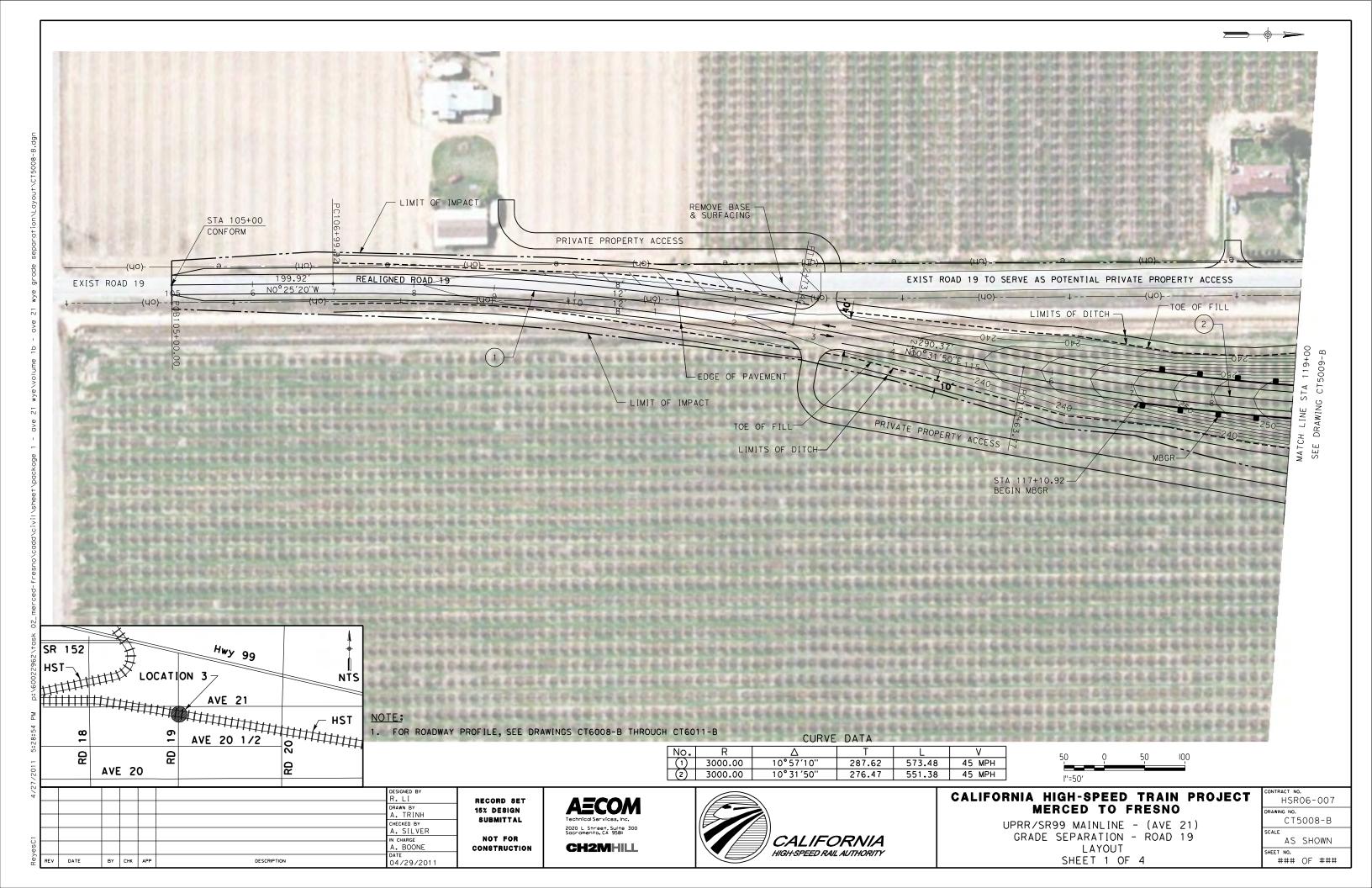


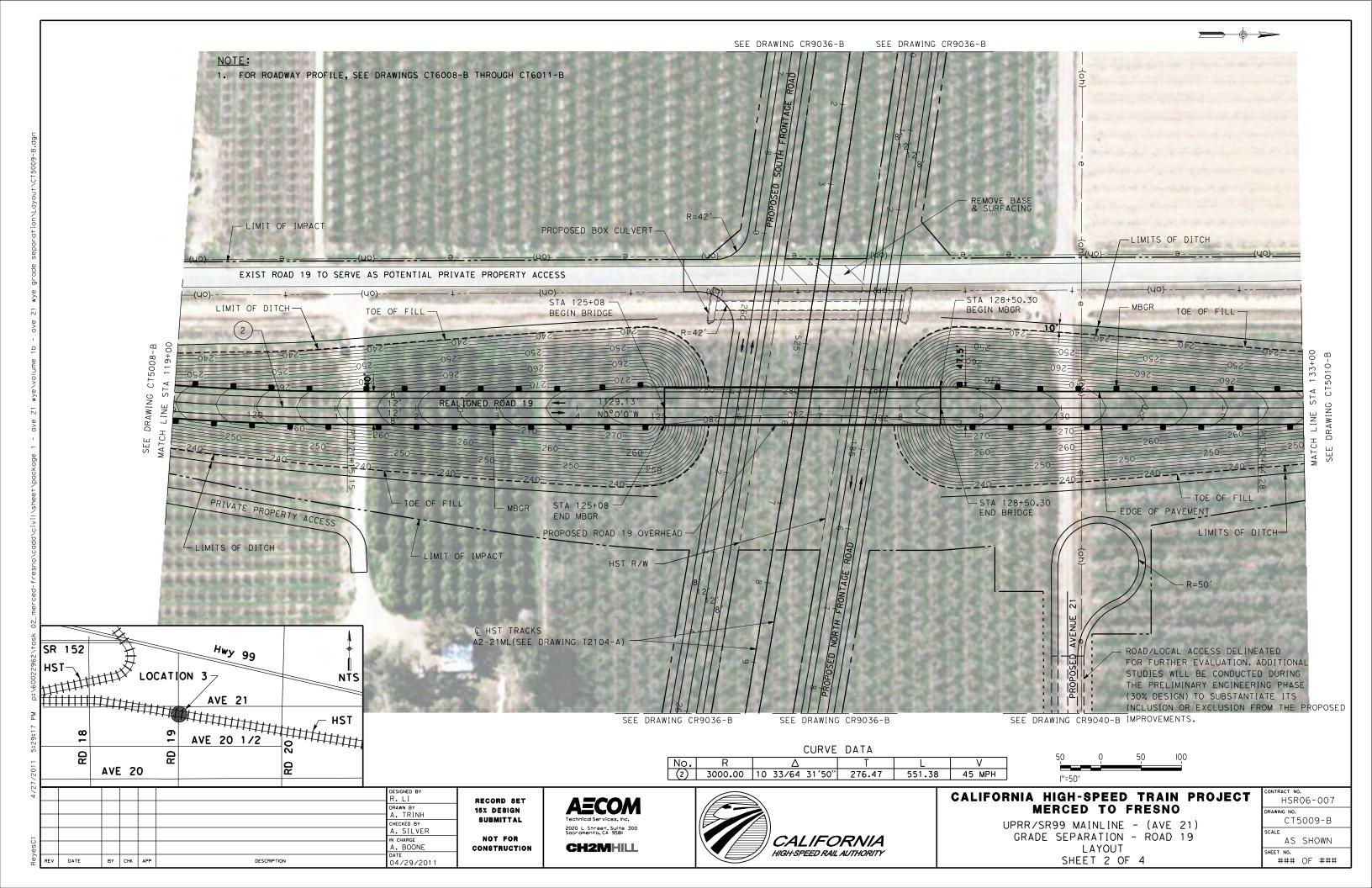


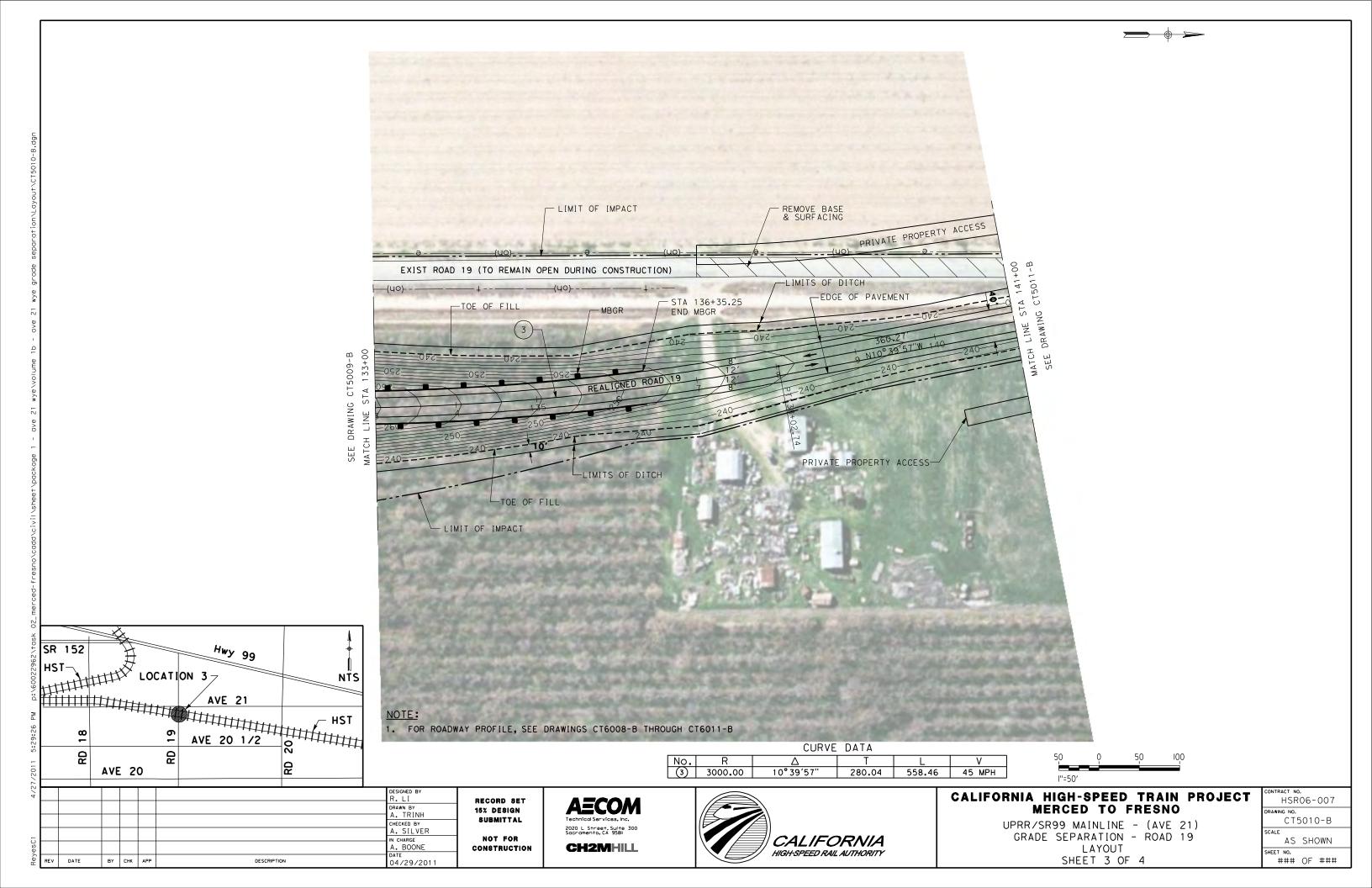


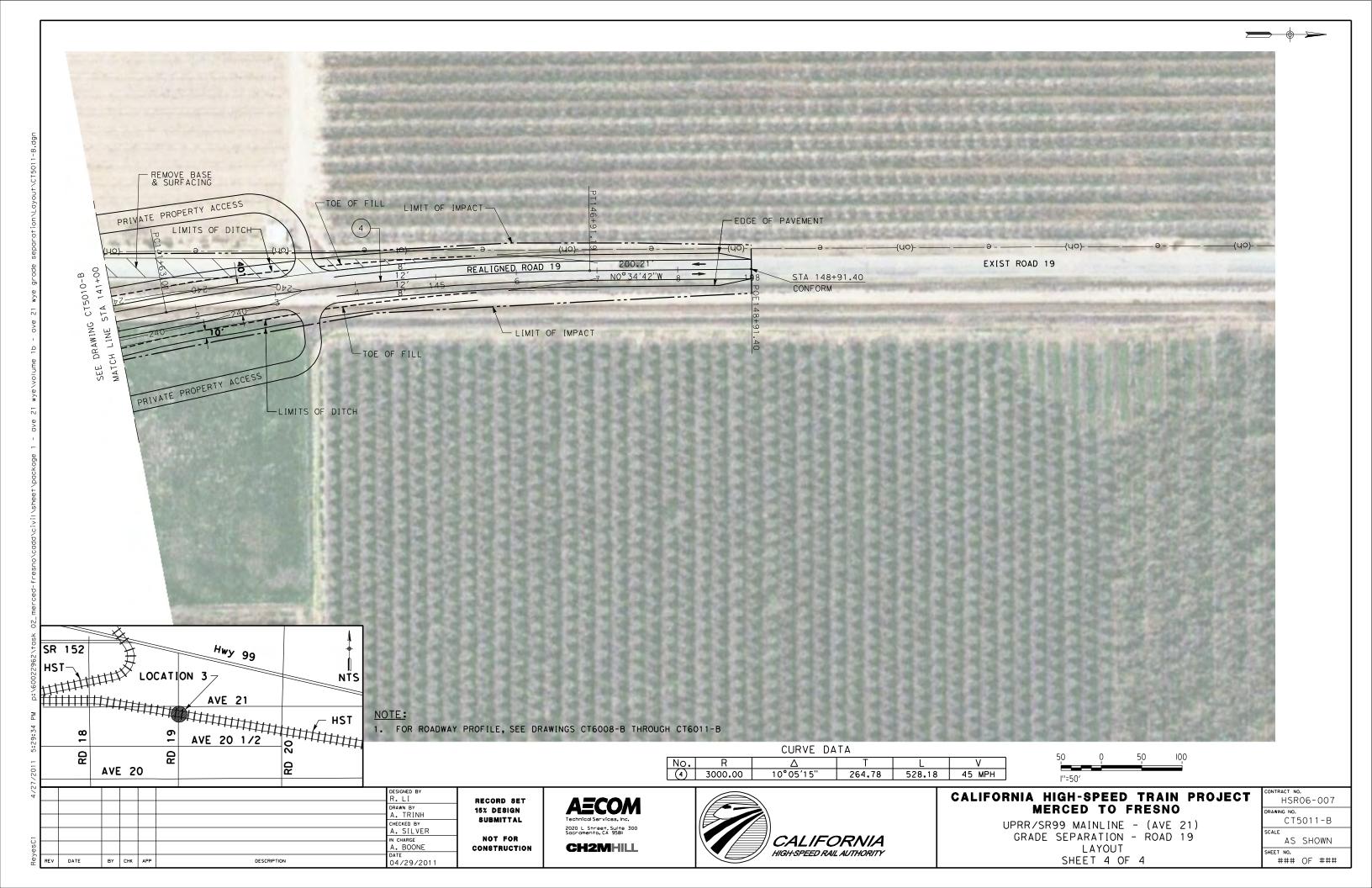


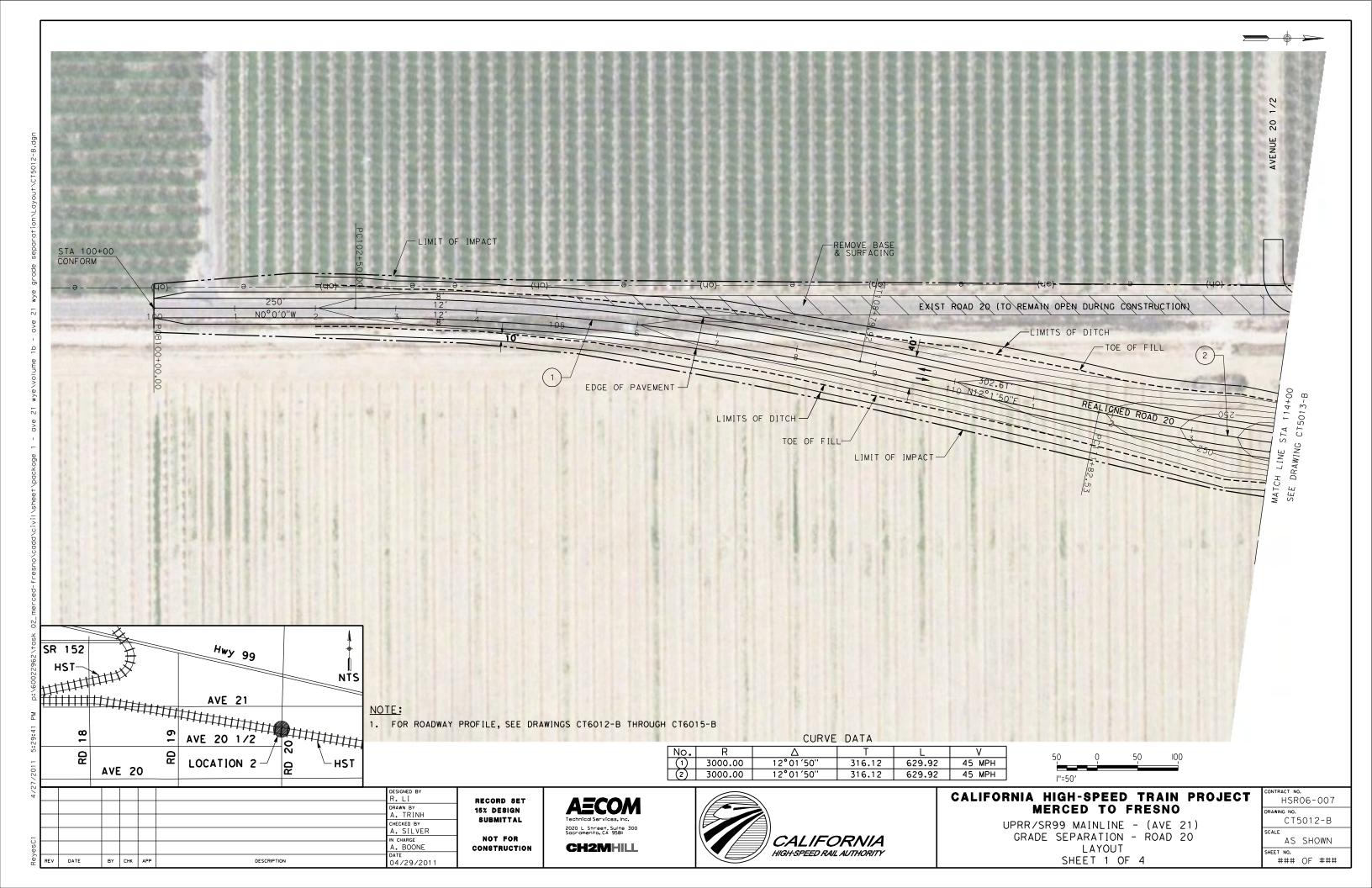


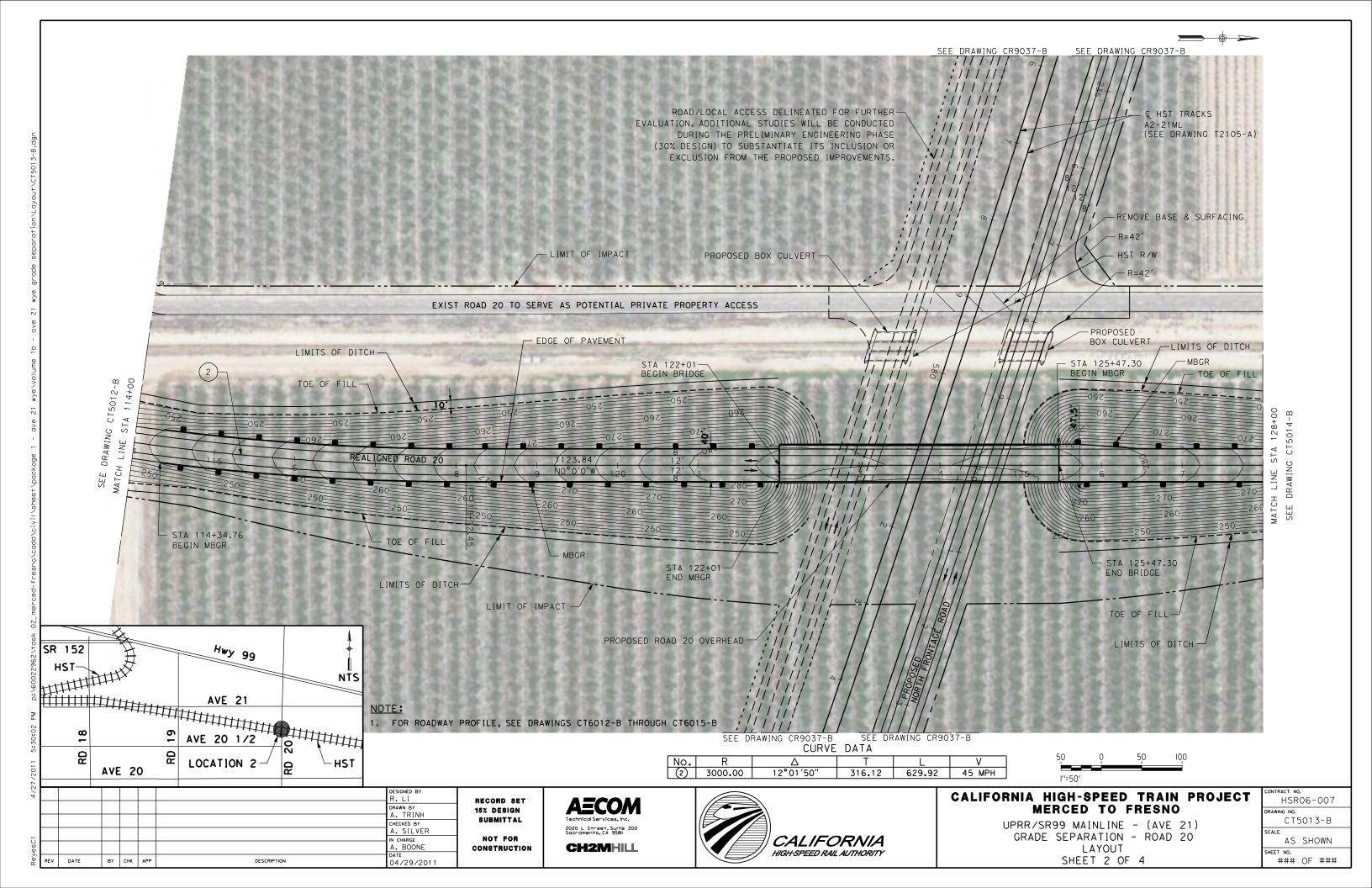


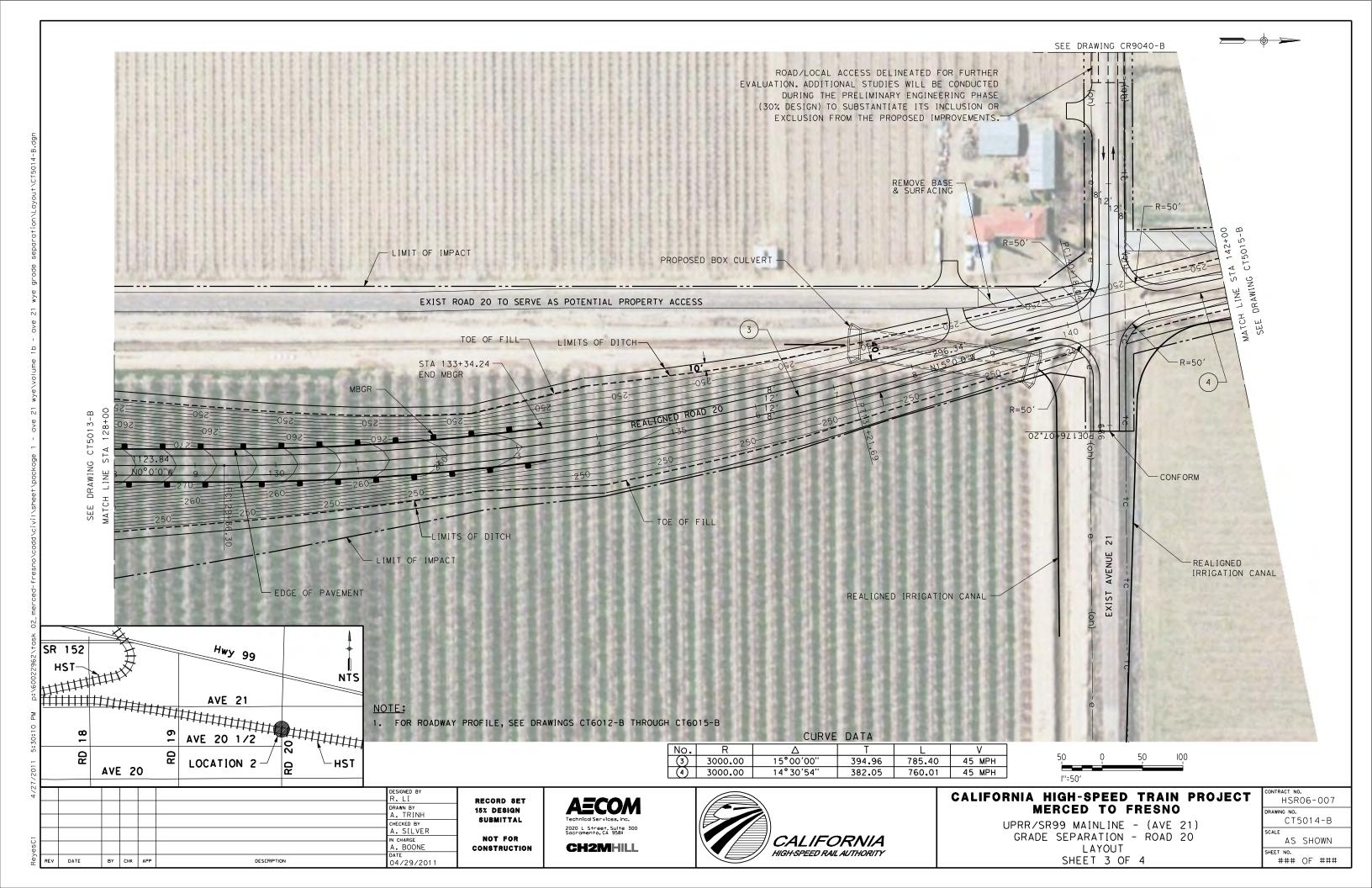


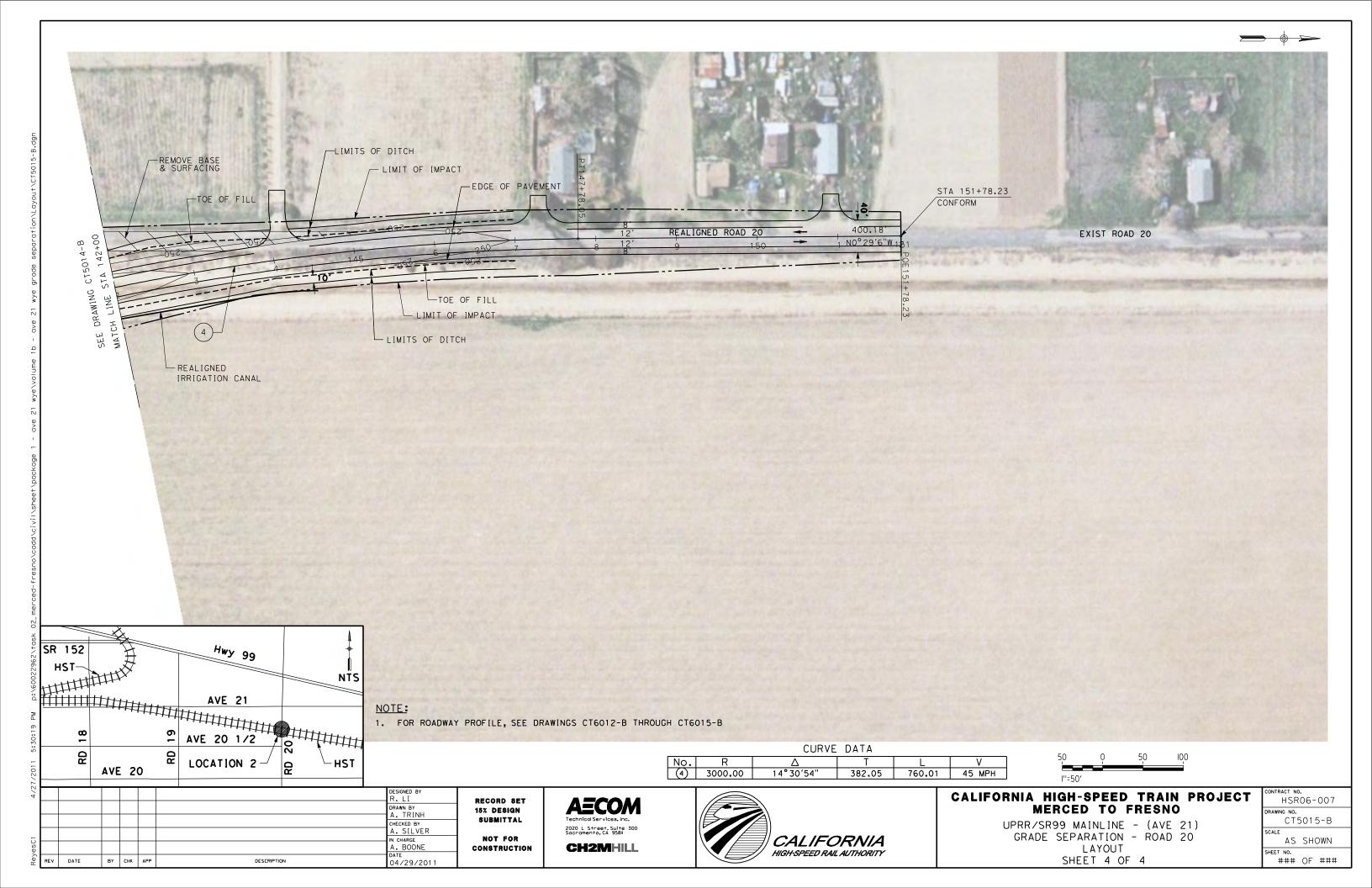


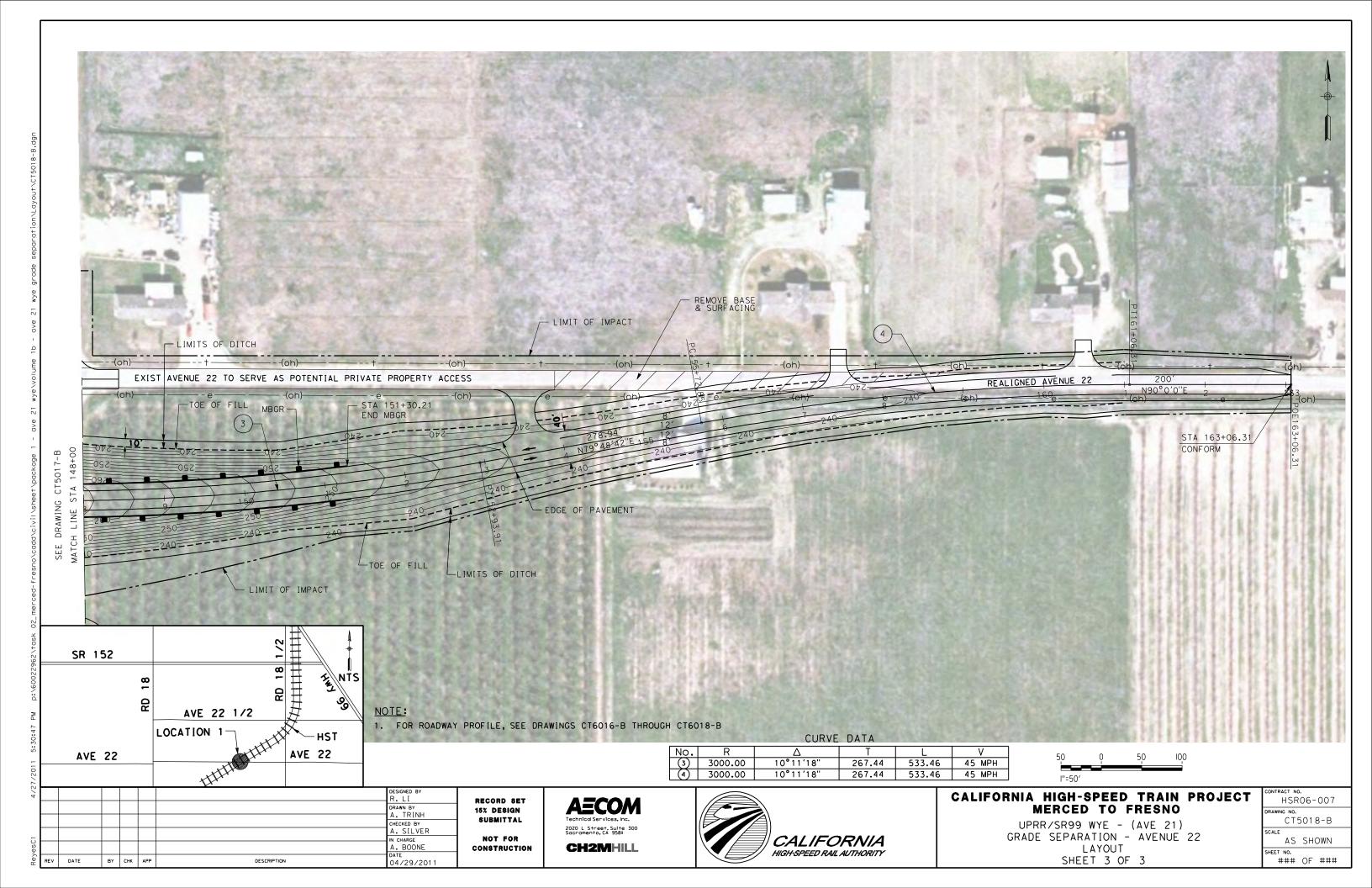


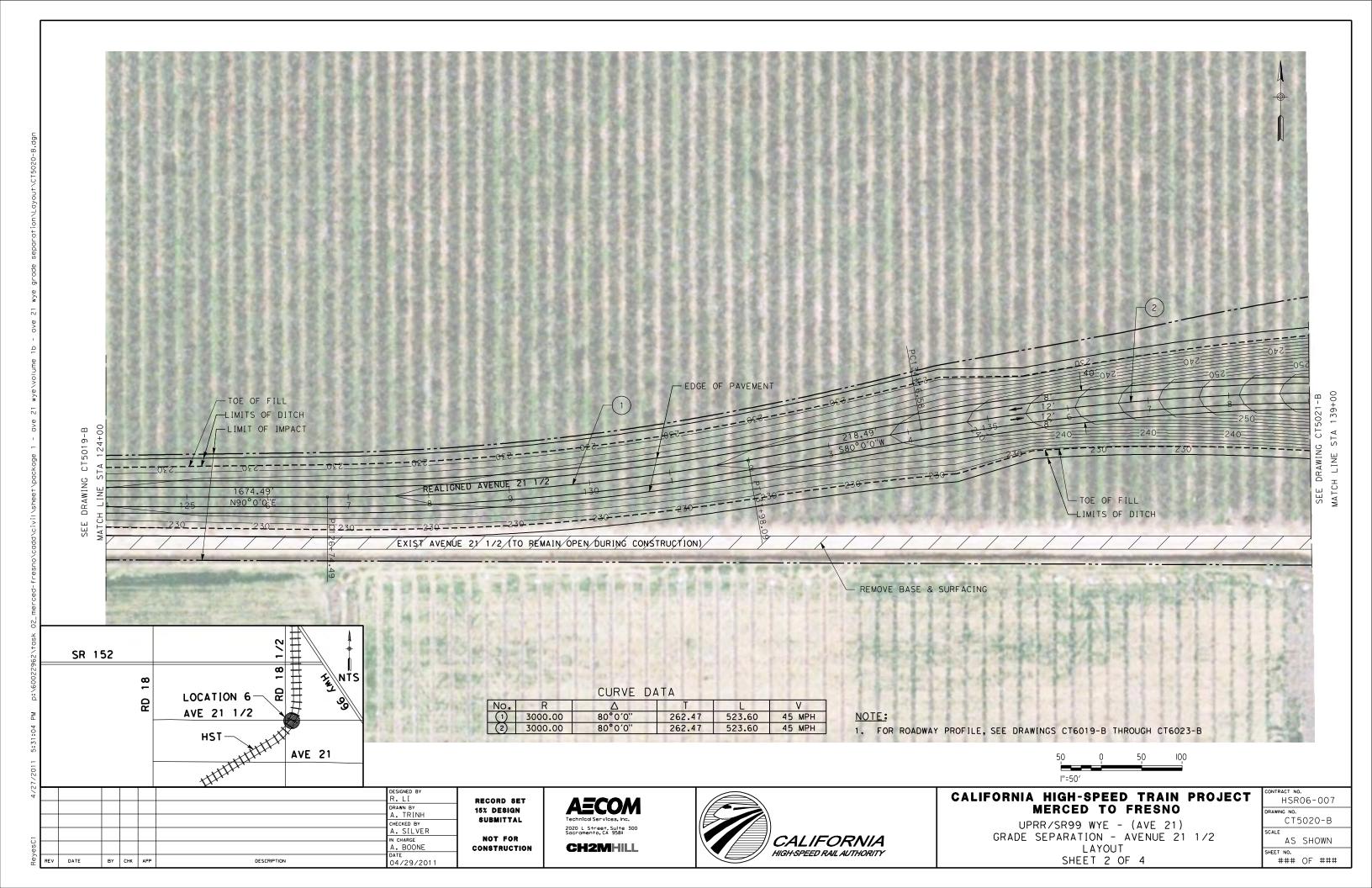


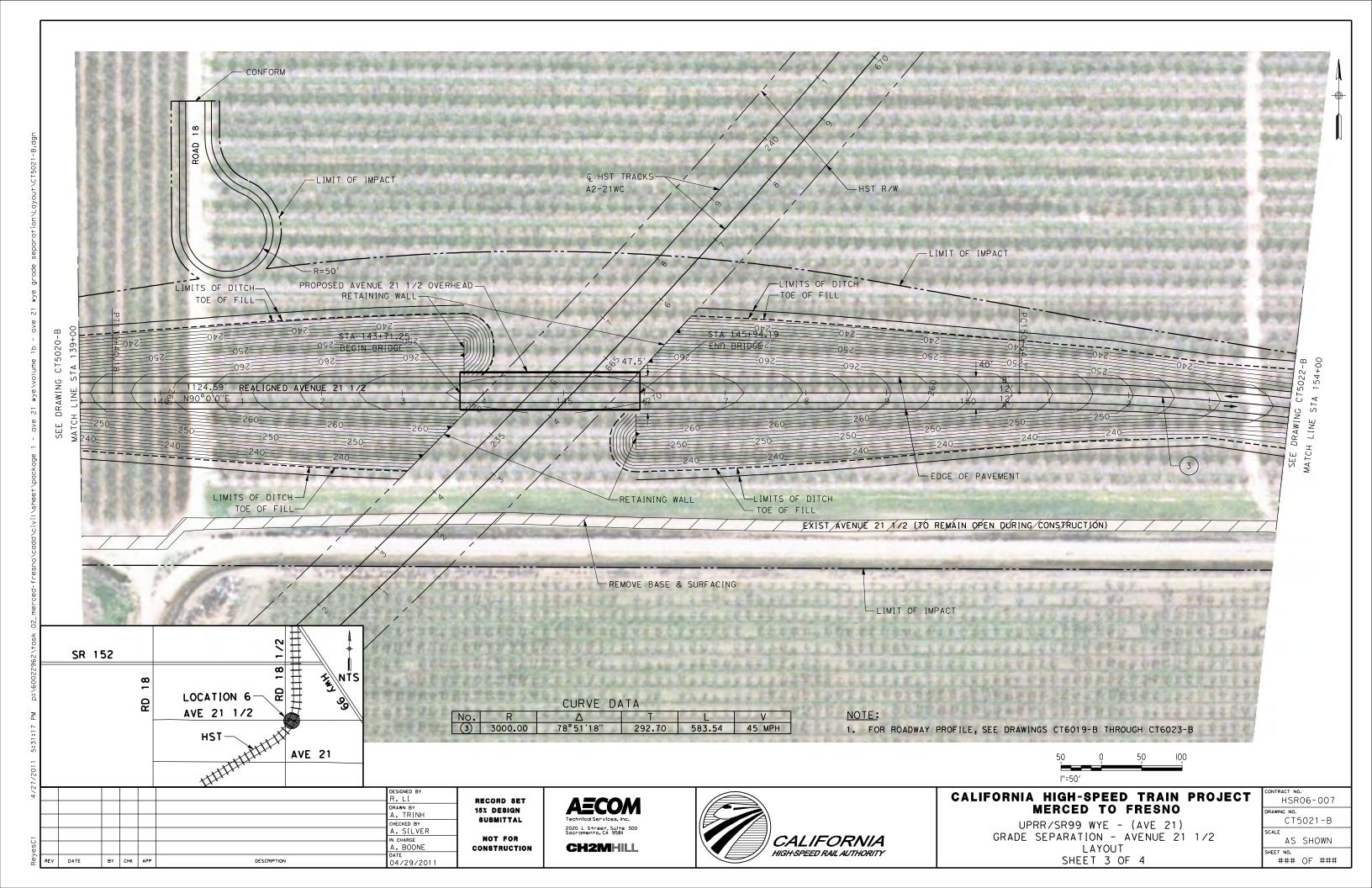


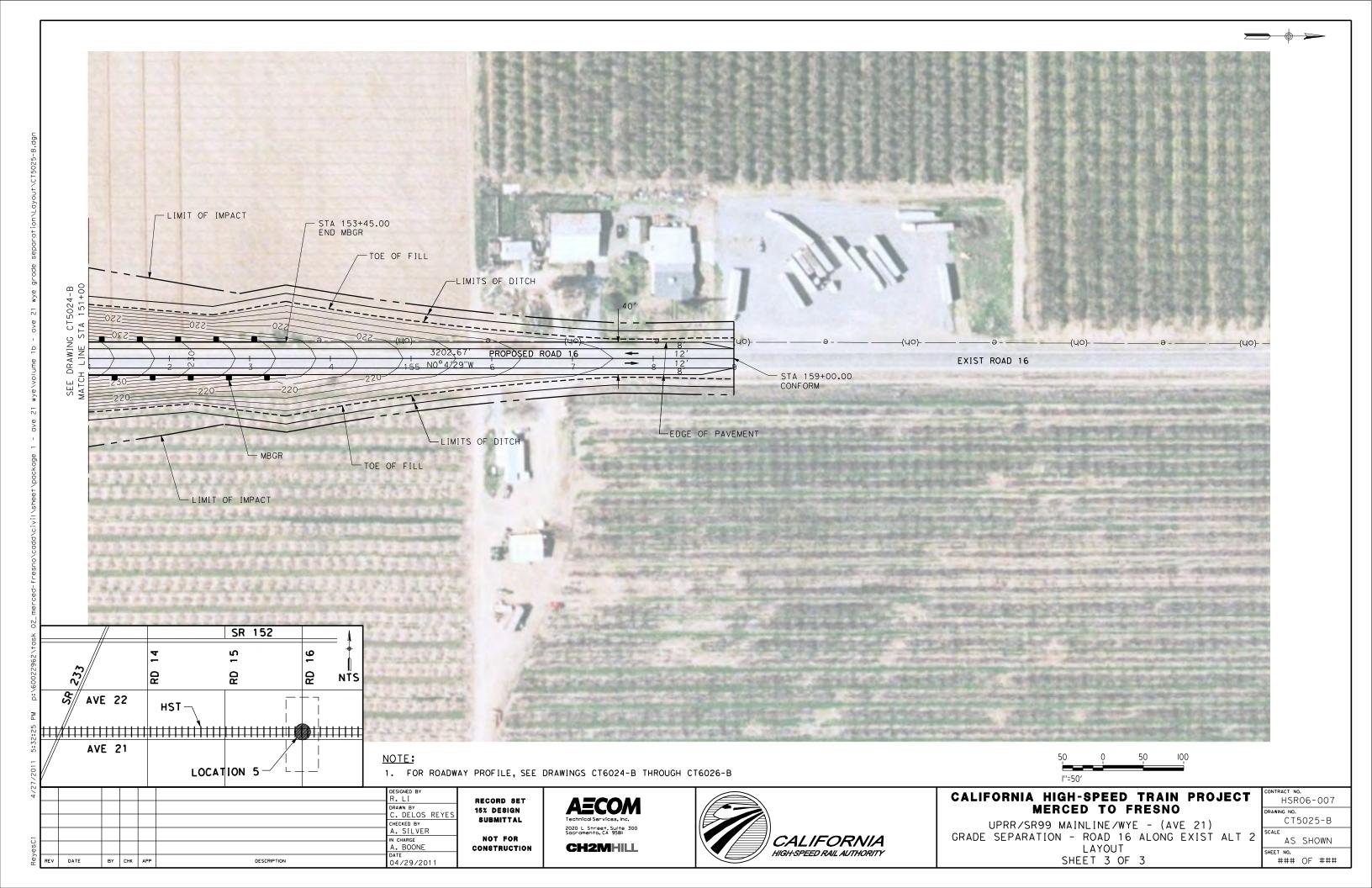












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07/27/2011

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SHEET 1 OF 1

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HIGH-SPEED RAIL AUTHORITY

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OF

SUPERELEVATION TEMPLATE

SHEET 1 OF 4

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CONSTRUCTION

REV DATE

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HIGH-SPEED RAIL AUTHORITY

AS SHOWN

OF

SUPERELEVATION TEMPLATE

SHEET 2 OF 4

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

AS SHOWN

OF

SUPERELEVATION TEMPLATE

SHEET 3 OF 4

IN CHARGE
A. BOONE
DATE
04/29/2011

REV DATE

BY CHK APP

DESCRIPTION

NOT FOR

CONSTRUCTION

CH2MHILL

6% 4% 50′ 150′ 100 L+ ETW & L+ ShId +2% 2% 2% 3000′ to \$000′ R, Rt AXIS OF ROTATION - CONTROL LINE 0% 0% MATCH L DRAWING R+ ETW -2% L+ & R+ ETW -2% -2% <u>-2%</u> <u>-4%</u> Rt Shid -5% <u>-6%</u> -6% SUPERELEVATION TEMPLATE DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET AECOM DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 - (AVE 21)

REV DATE

BY CHK APP

DESCRIPTION

NOT FOR CONSTRUCTION

IN CHARGE
A. BOONE
DATE
04/29/2011

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**



GRADE SEPARATION SUPERELEVATION TEMPLATE SHEET 4 OF 4

HSR06-007 CT5703-B

AS SHOWN ### OF ### 285 285 280 280 275 270 265 265 260 260 250 250 240 240 235 225 220 220 90 0 450 VC 1 SSD 564 DS 45MPH 0.30% 205 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 200 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL СТ6000-В UPRR/SR99 MAINLINE/WYE - (AVE 21) GRADE SEPARATION - ROAD 16 ALT 1 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 4

REV DATE

BY CHK APP

DESCRIPTION

REV DATE

BY CHK APP

DESCRIPTION

285 285 280 280 275 270 265 265 260 260 250 250 245 240 240 235 225 450' VC SSD 564' DS 45MPH 220 220 — og 215 -0.50% 210 205 205 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL СТ6003-В UPRR/SR99 MAINLINE/WYE - (AVE 21) GRADE SEPARATION - ROAD 16 ALT 1 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 4 OF 4

300 300 295 290 290 285 280 280 275 270 270 265 265 260 260 255 255 250 250 240 240 235 235 +76.00 BVC Elev 224.16 230 230 OG — 220 220 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 215 115 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6004-B UPRR/SR99 MAINLINE/WYE - (AVE 21) GRADE SEPARATION - ROAD 17 1/2 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 1 OF 4

REV DATE

BY CHK APP

DESCRIPTION

REV DATE

BY CHK APP

DESCRIPTION

300 300 295 290 290 285 280 280 275 270 270 265 265 260 260 255 250 450' VC SSD 564' DS 45MPH 240 240 -0.50% 235 235 230 230 225 220 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 215 115 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6008-B UPRR/SR99 MAINLINE - (AVE 21) GRADE SEPARATION - ROAD 19 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 4

300 300 295 290 290 285 280 280 275 270 270 265 265 `4.00% 260 260 255 255 250 250 450' VC SSD 564' DS 45MPH 245 245 SEE OG--0.5% 240 240 MATCH DRAWING 235 235 230 230 225 220 220 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 140 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6010-B UPRR/SR99 MAINLINE - (AVE 21) GRADE SEPARATION - ROAD 19 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 3 OF 4

300 300 295 290 290 285 280 280 275 270 270 265 265 260 250 -0.50% 240 240 -0.30 235 235 230 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 215 155 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6011-B UPRR/SR99 MAINLINE - (AVE 21) GRADE SEPARATION - ROAD 19 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN **CH2MHILL** PROFILE SHEET 4 OF 4 CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

300 300 295 290 290 285 280 280 275 270 270 265 265 260 260 +28.37 BVC E1ev 246.13 255 250 MATC DRAWI 245 0.58% 240 240 235 235 230 230 225 225 220 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 215 105 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6012-B UPRR/SR99 MAINLINE - (AVE 21) GRADE SEPARATION - ROAD 20 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 4

REV DATE

BY CHK APP

DESCRIPTION

SHEET 4 OF 4

300 300 295 290 290 285 280 280 275 270 270 265 265 260 260 255 255 250 450' VC SSD 564' DS 45MPH 240 240 SEE 235 235 0.74% 230 230 225 225 220 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 125 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6016-B UPRR/SR99 WYE - (AVE 21) GRADE SEPARATION - AVENUE 22 2020 L Street, Suite 300 Sacramento, CA 95811 CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY SHEET 1 OF 3

REV DATE

BY CHK APP

DESCRIPTION

305 305 300 300 295 295 290 290 285 285 280 280 275 270 270 265 265 260 260 255 250 245 245 240 240 LINE CT6020-PG-PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 220 115 120 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6019-B UPRR/SR99 WYE - (AVE 21) GRADE SEPARATION - AVENUE 21 1/2 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN **CH2MHILL** CONSTRUCTION PROF ILE SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 5

<u> 305</u> 305 300 300 295 295 290 290 285 280 280 275 270 270 265 265 260 260 +74,54 EVC E lev 246,46 255 +24,54 BVC Elev 236.33 245 245 450′VC SSD 564′ DS 45MPH 240 240 PG-235 235 230 230 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 220 130 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6020-B UPRR/SR99 WYE - (AVE 21) GRADE SEPARATION - AVENUE 21 1/2 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 2 OF 5

305 <u> 305</u> 300 300 295 295 290 290 285 280 280 275 275 270 270 265 265 260 260 255 250 250 MATCH 450'VC SSD 564' DS 45MPH 245 245 86.06 lev 23 240 LINE CT6023-240 -0.30% 235 230 230 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 220 160 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6022-B UPRR/SR99 WYE - (AVE 21) GRADE SEPARATION - AVENUE 21 1/2 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 4 OF 5

305 <u> 305</u> 300 300 295 295 290 290 285 280 280 275 275 270 270 265 265 260 260 255 250 245 245 240 240 235 235 230 230 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 220 170 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6023-B UPRR/SR99 WYE - (AVE 21) GRADE SEPARATION - AVENUE 21 1/2 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 5 OF 5

285 285 280 280 275 270 265 265 260 260 255 250 250 245 240 240 235 +19.97 EVC 225 +69.97 BVC 220 220 450' VC SSD 564' DS 45 MPH 215 OG — 210 205 205 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 200 130 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
C. DELOS REYES
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6024-B UPRR/SR99 MAINLINE/WYE - (AVE 21)
GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2 2020 L Street, Suite 300 Sacramento, CA 95811 IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 1 OF 3

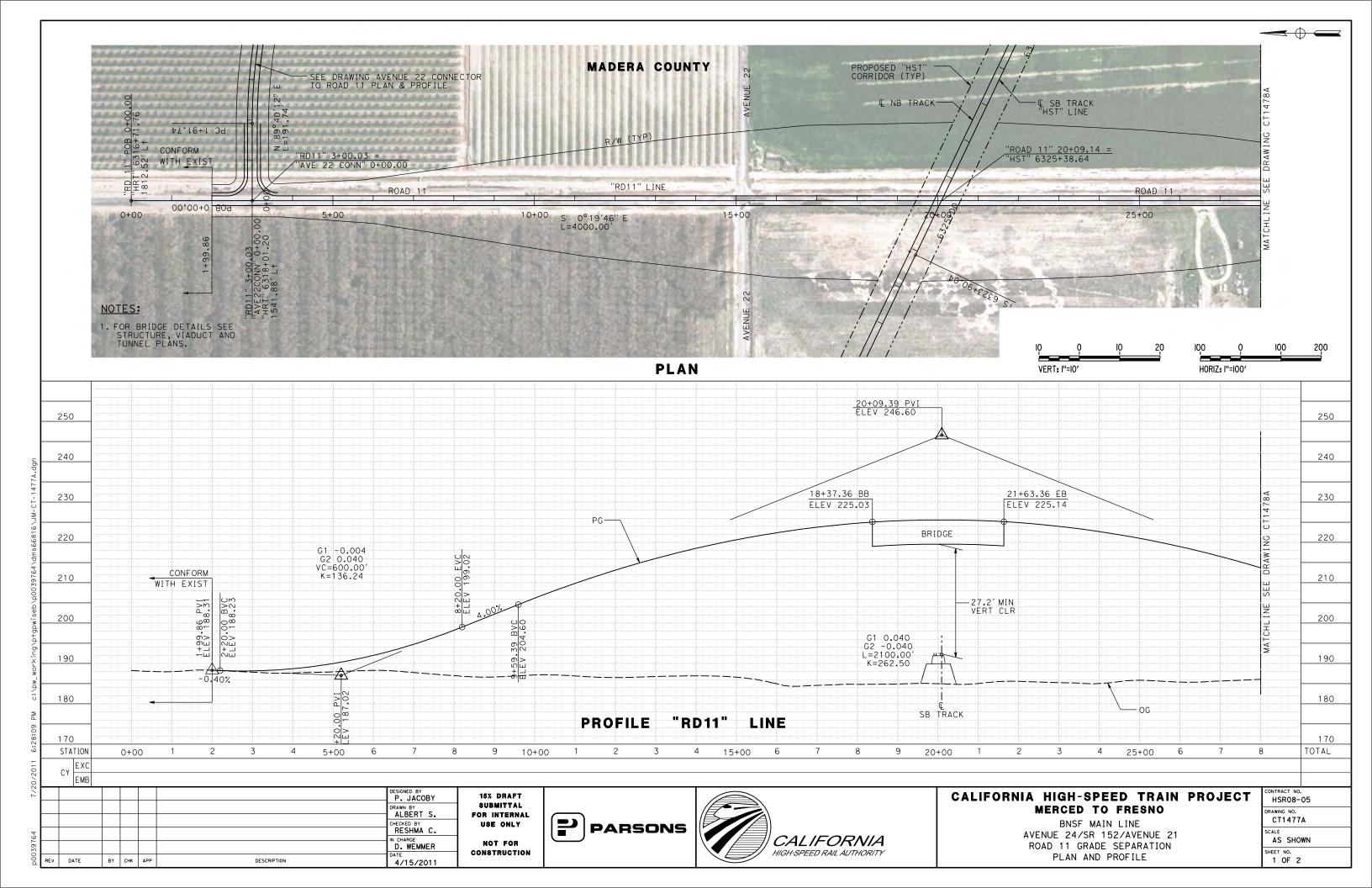
REV DATE

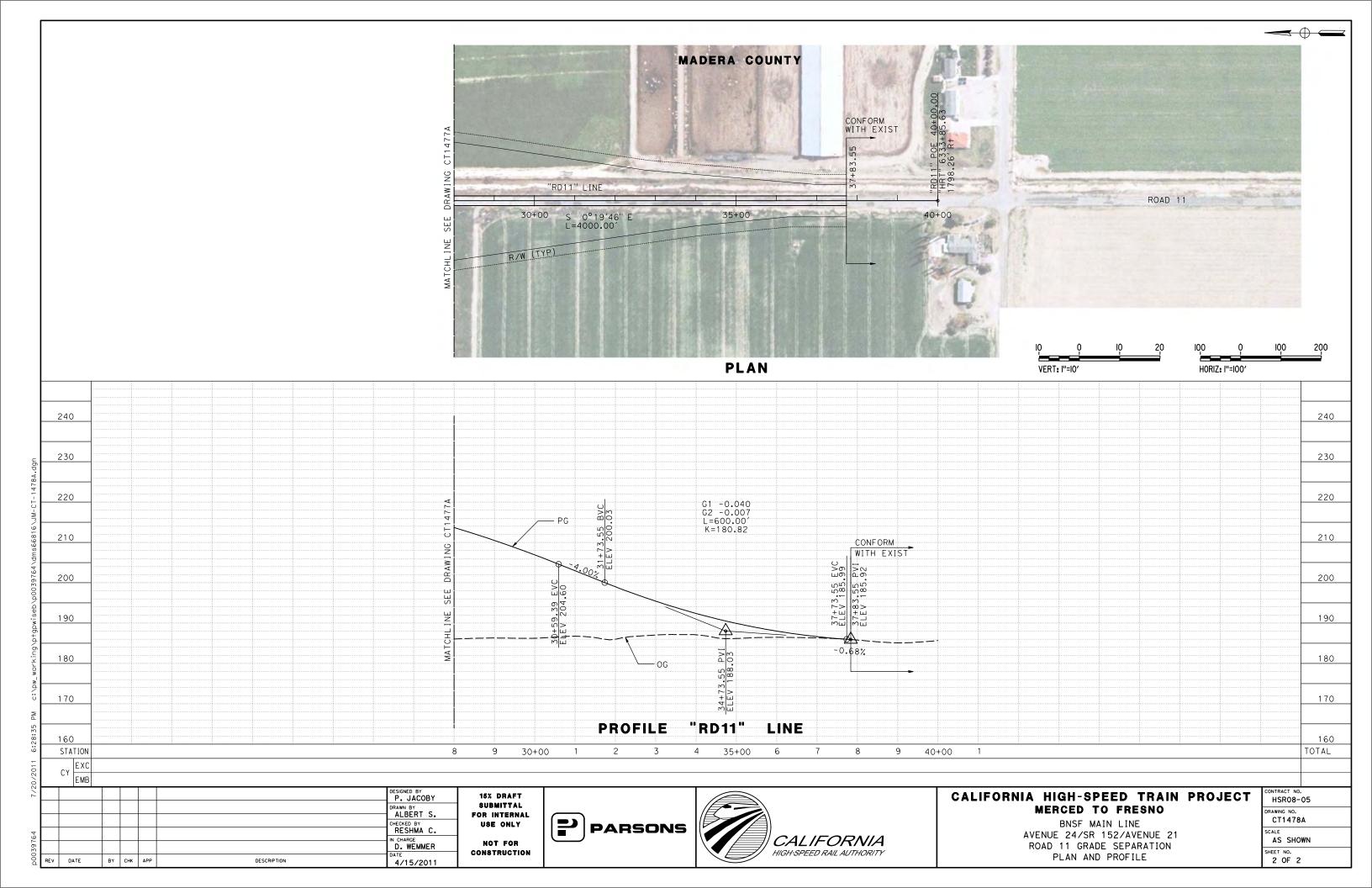
BY CHK APP

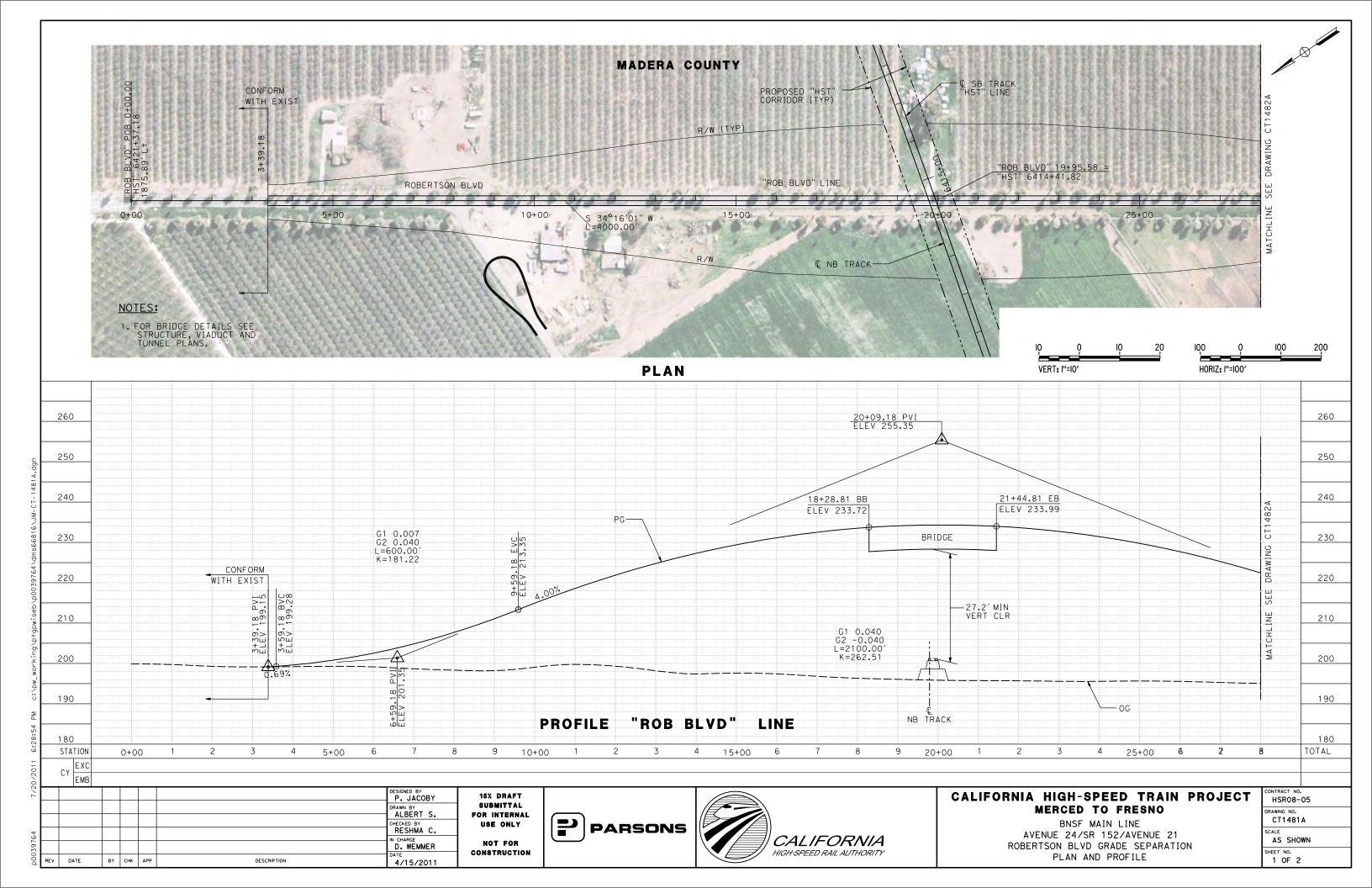
DESCRIPTION

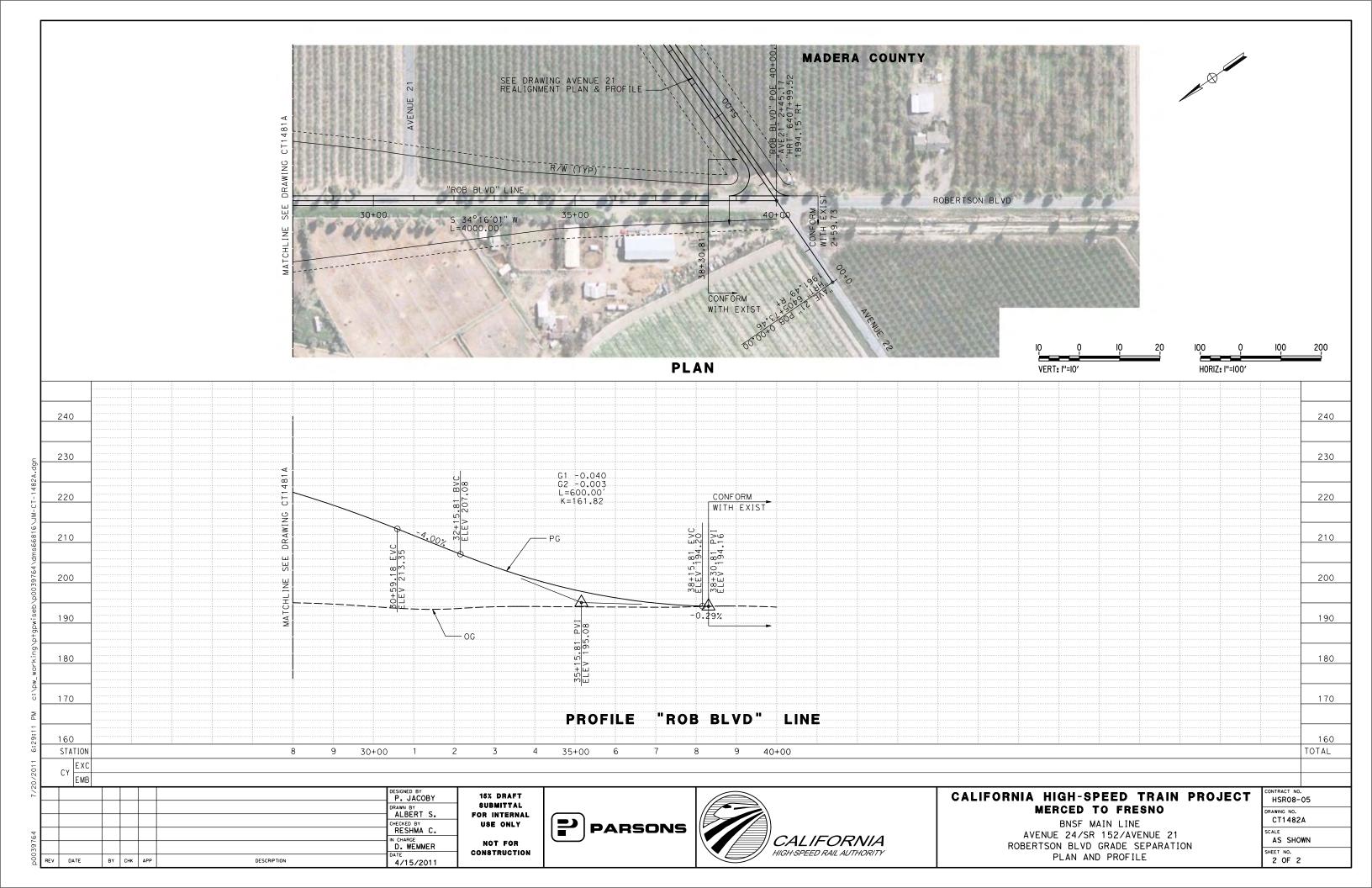
285 285 280 280 275 270 265 265 260 260 255 250 250 245 240 240 235 230 225 220 +00.00 Elev 212. CONFORM 220 450′ VC SSD 564′ DS 45 MPH 215 210 210 205 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 200 160 165 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY
C. DELOS REYES
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT6026-B UPRR/SR99 MAINLINE/WYE - (AVE 21) GRADE SEPARATION - ROAD 16 ALONG EXIST ALT 2 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY SHEET 3 OF 3 REV DATE BY CHK APP DESCRIPTION

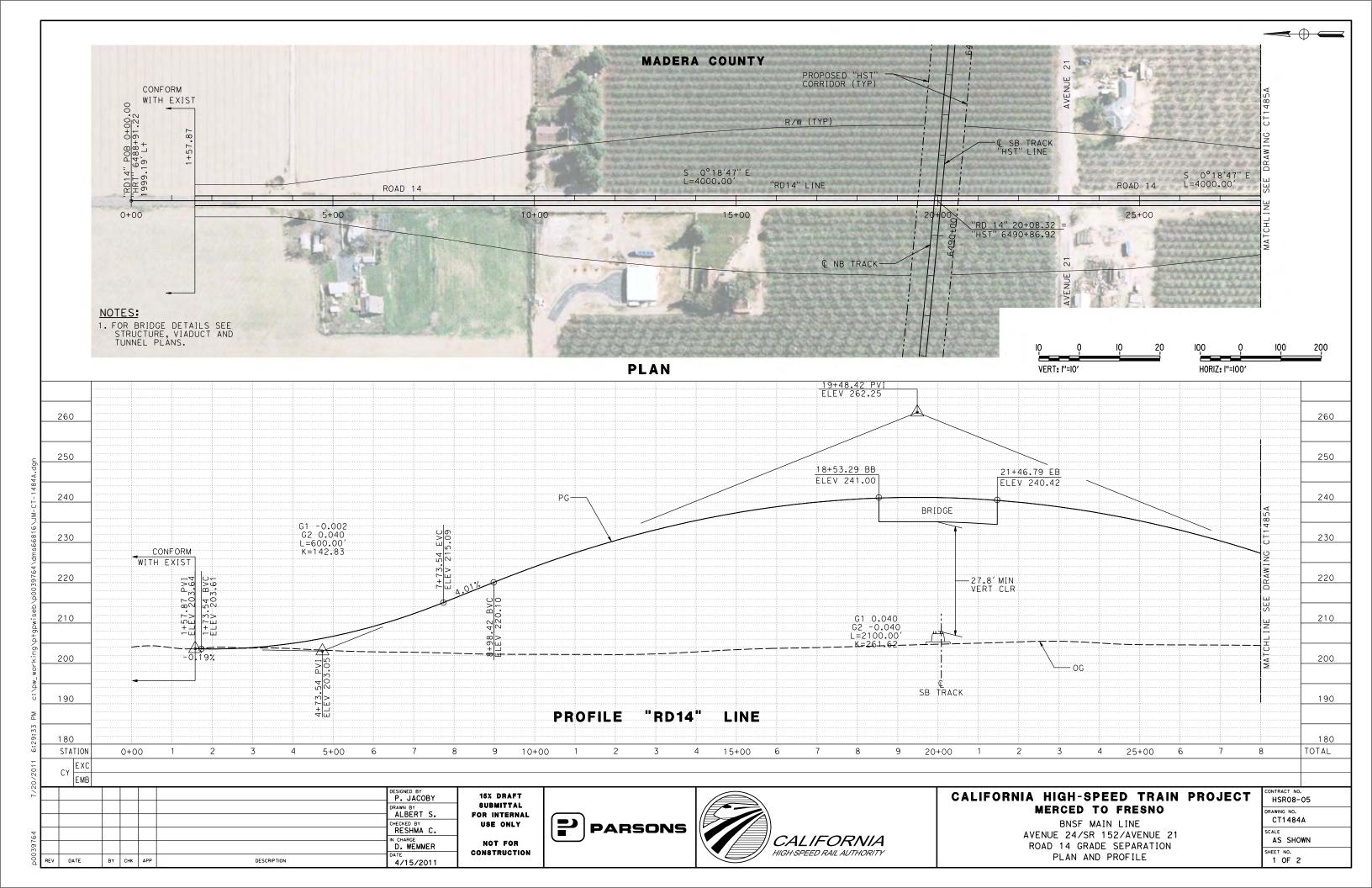
230 225 225 +72.68 Elev 213.23 220 220 215 210 210 205 200 200 195 195 600′ VC SSD 304′ — PG 190 190 185 185 300′ VC SSD 254 15' MIN CLR 180 300' VC SSD 254' 180 175 175 170 \rightarrow HST TOR = 165.64 170 165 160 160 155 PROFILE 150 150 SCALE HORIZ: 1"=50' VERT: 1"=5' 145 15 20 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1149-A UPRR MERCED CONNECTION - (AVE 21)
GRADE SEPARATION - G Street
PROFILE
SHEET 1 OF 1 SUBMITTAL CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION DATE 06/30/2011 OF ### DATE BY CHK APP DESCRIPTION

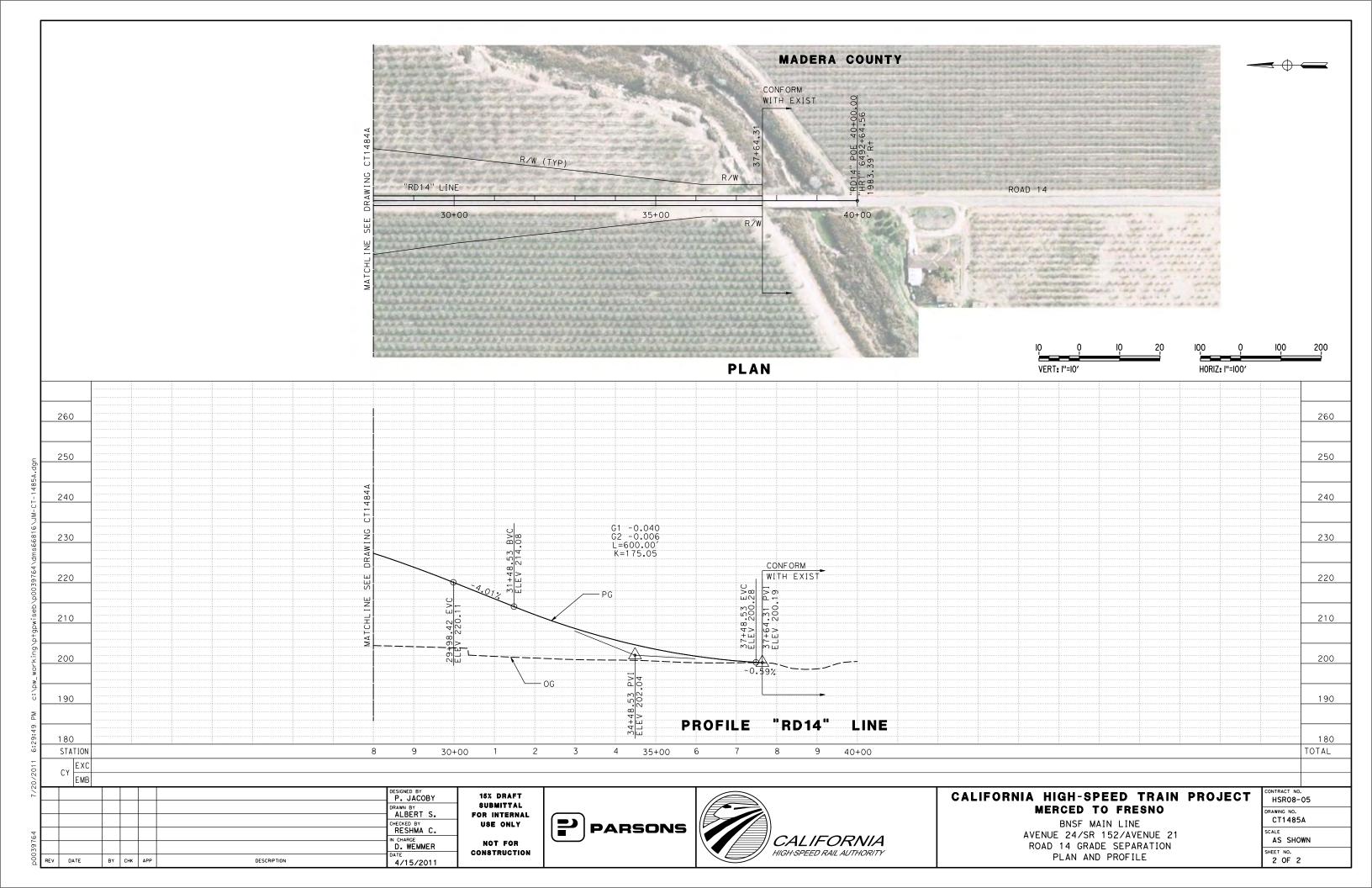


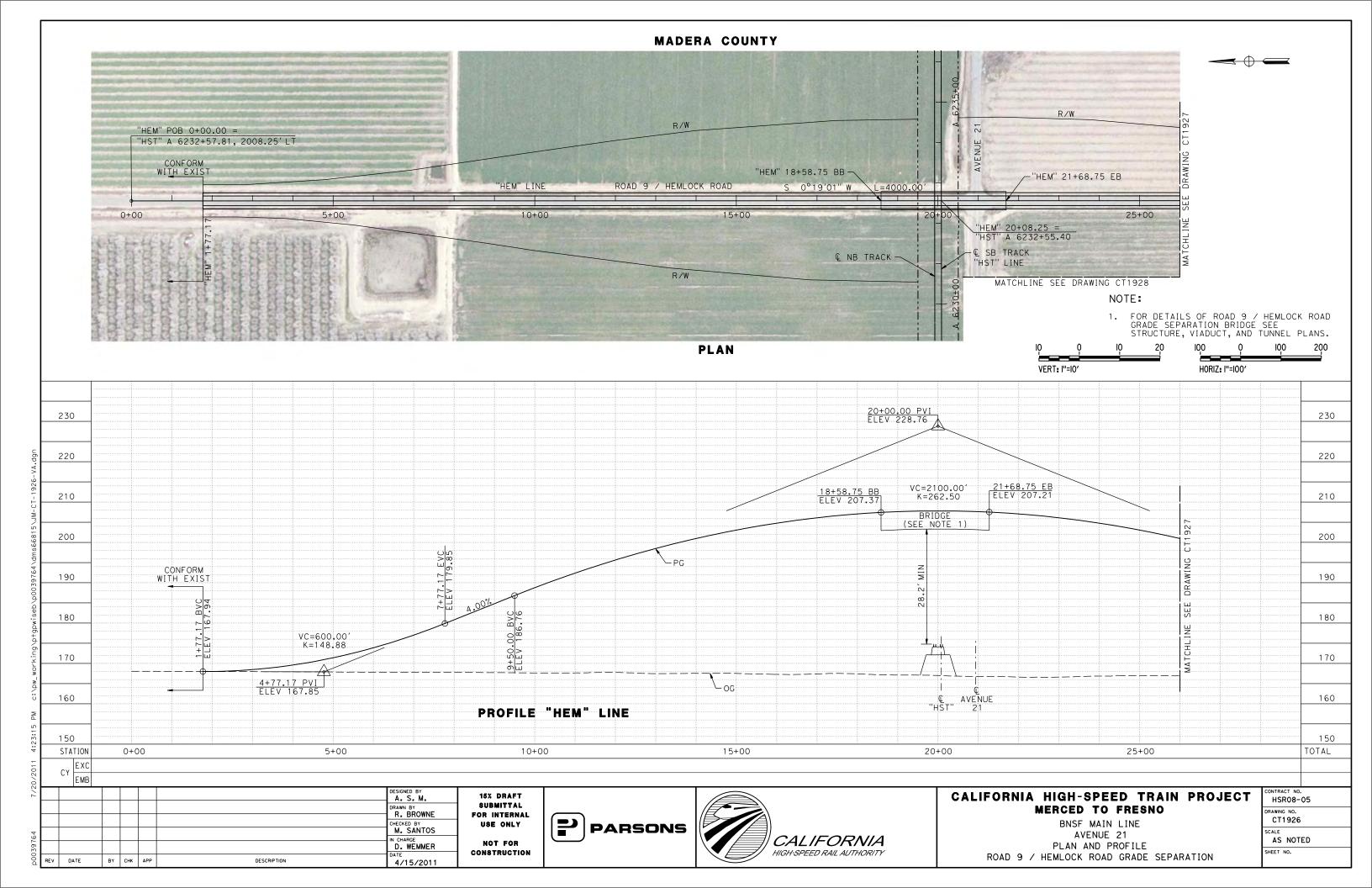


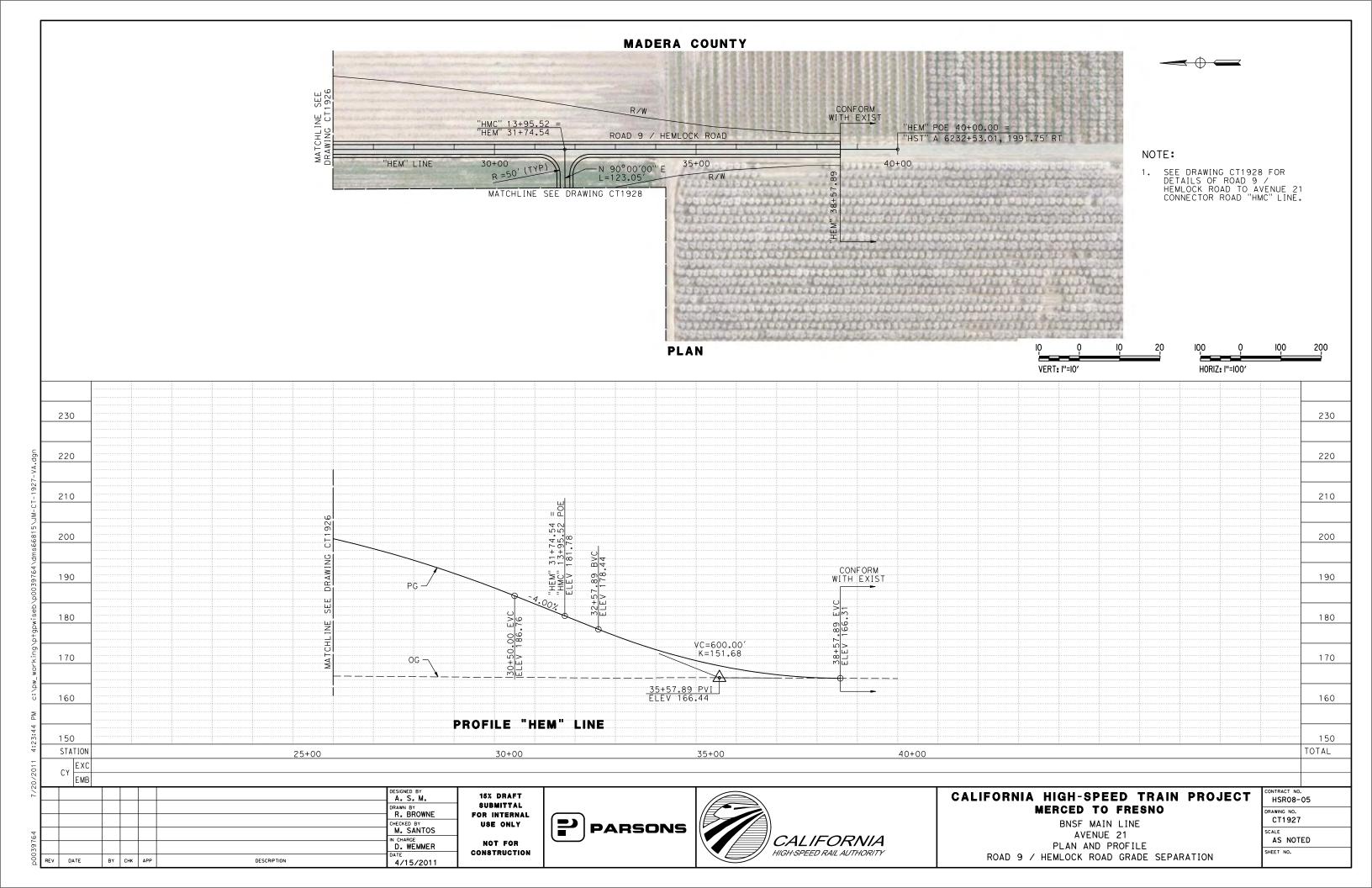


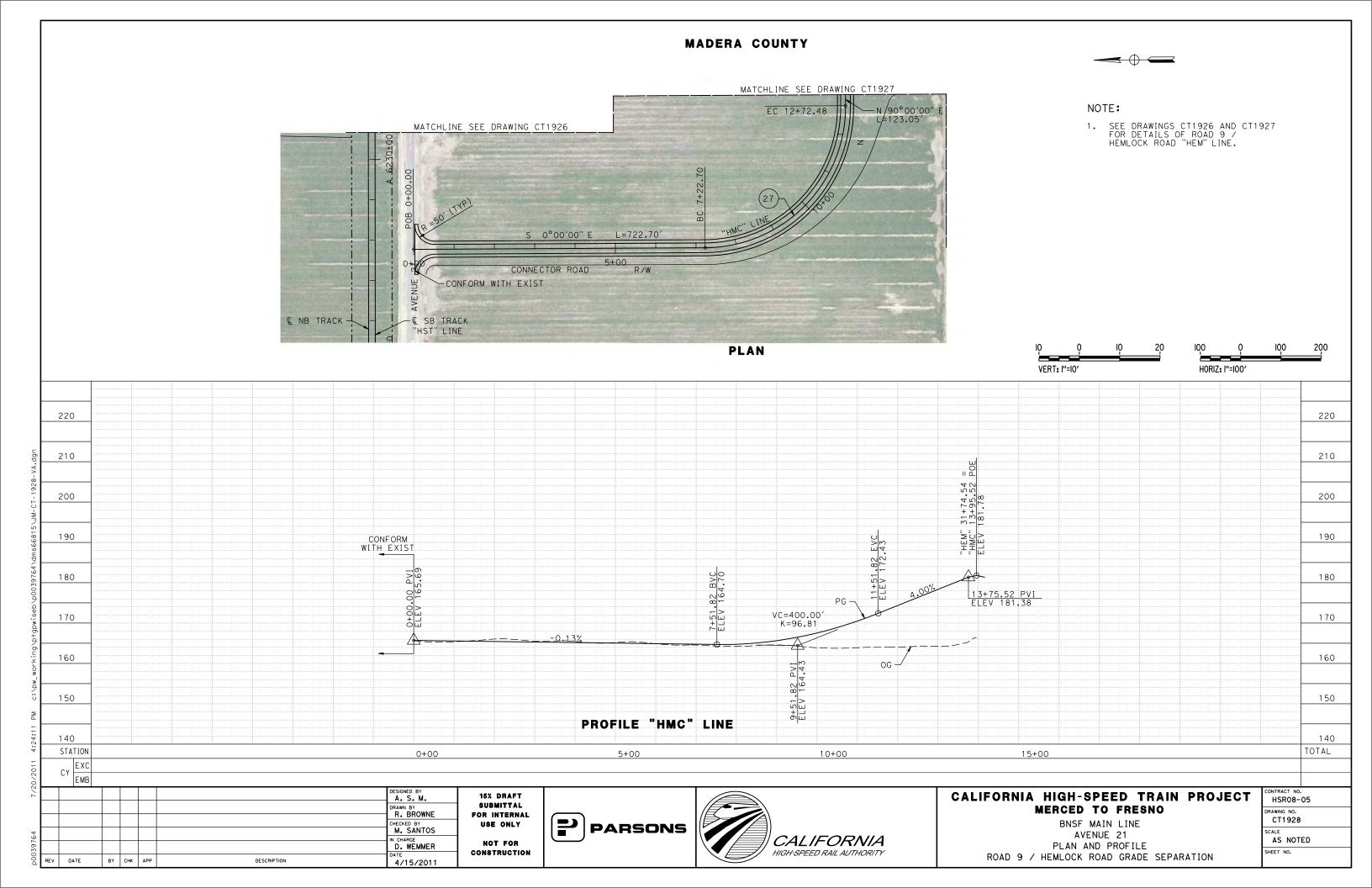


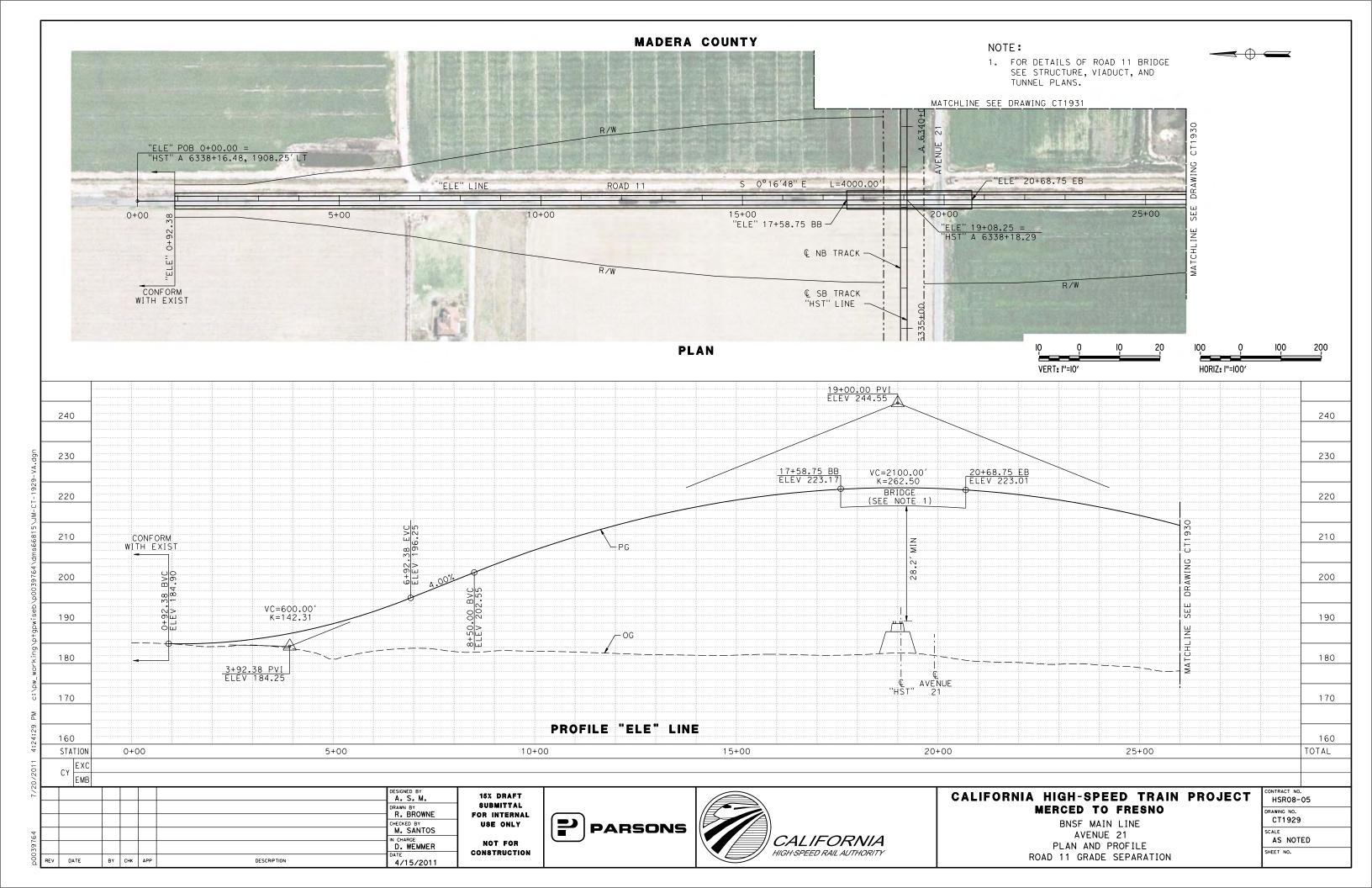


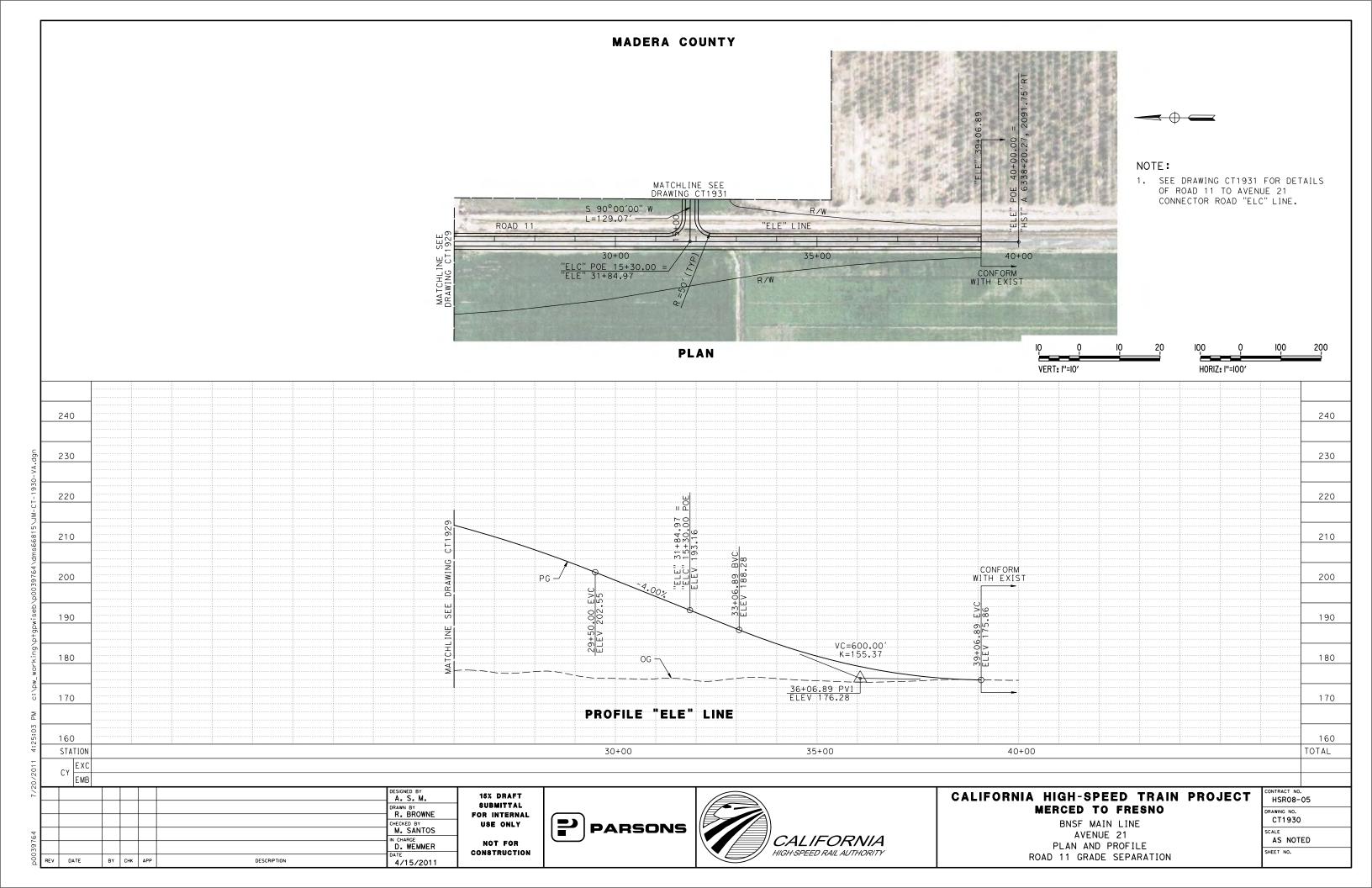


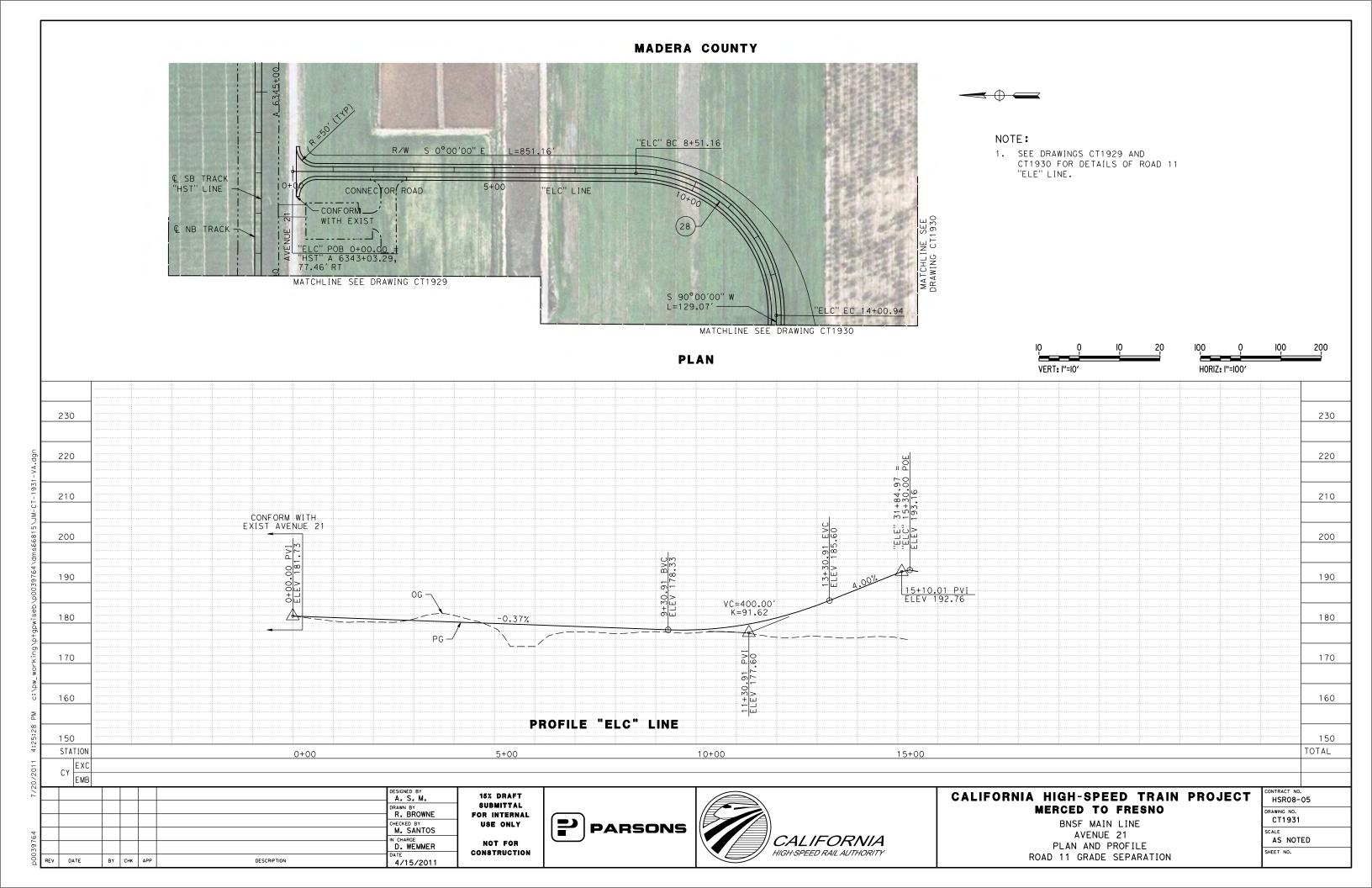


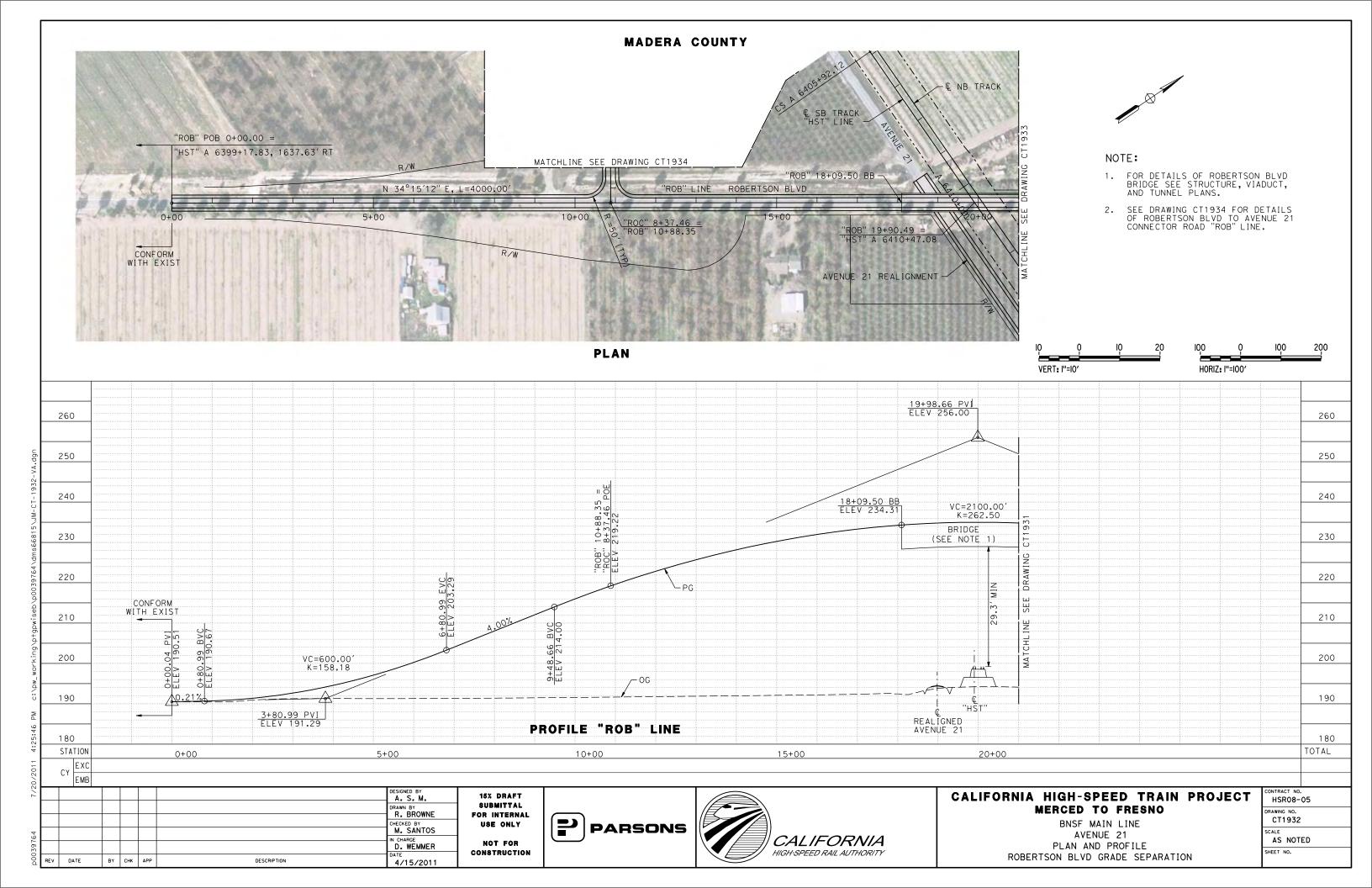


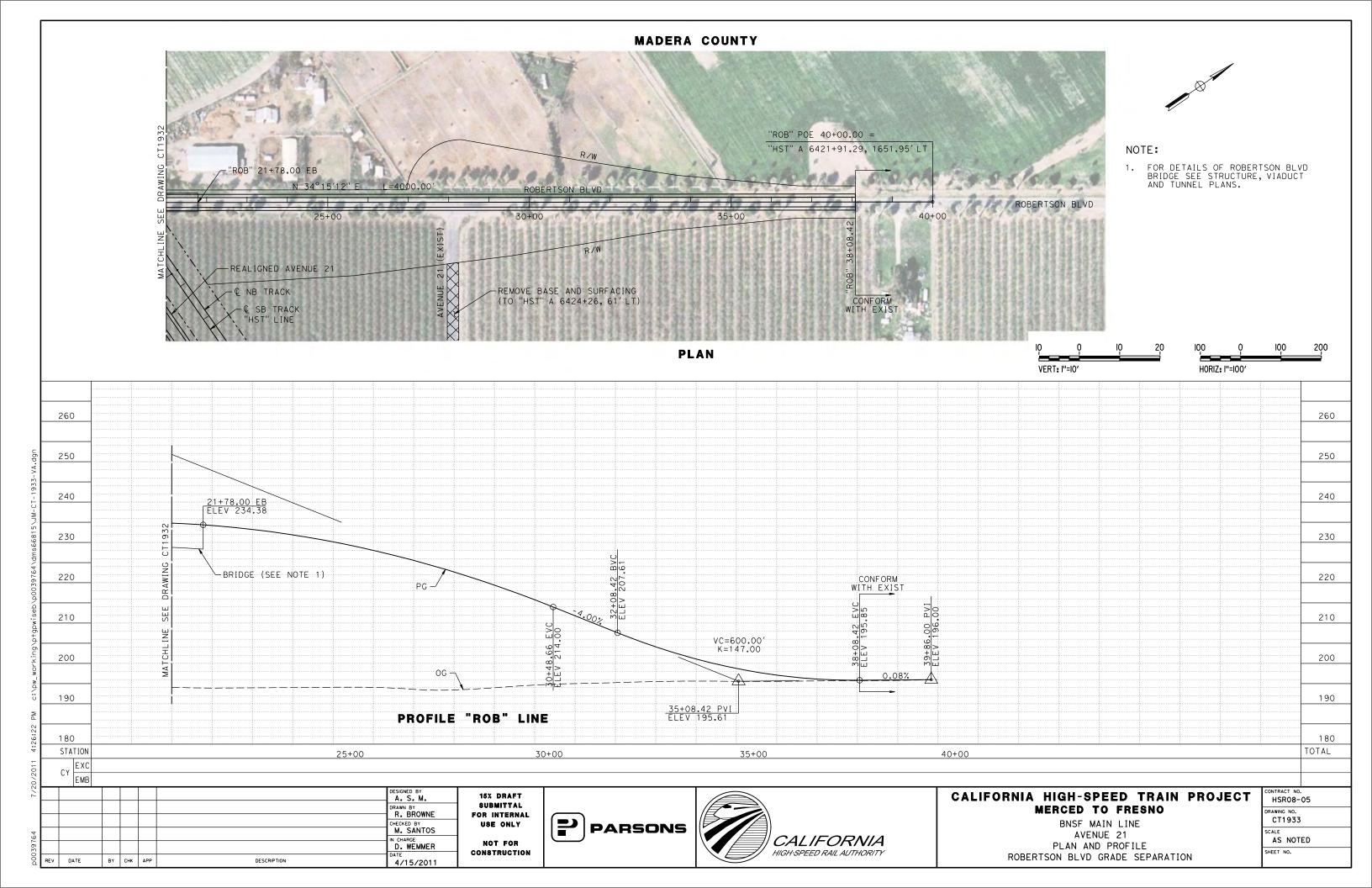


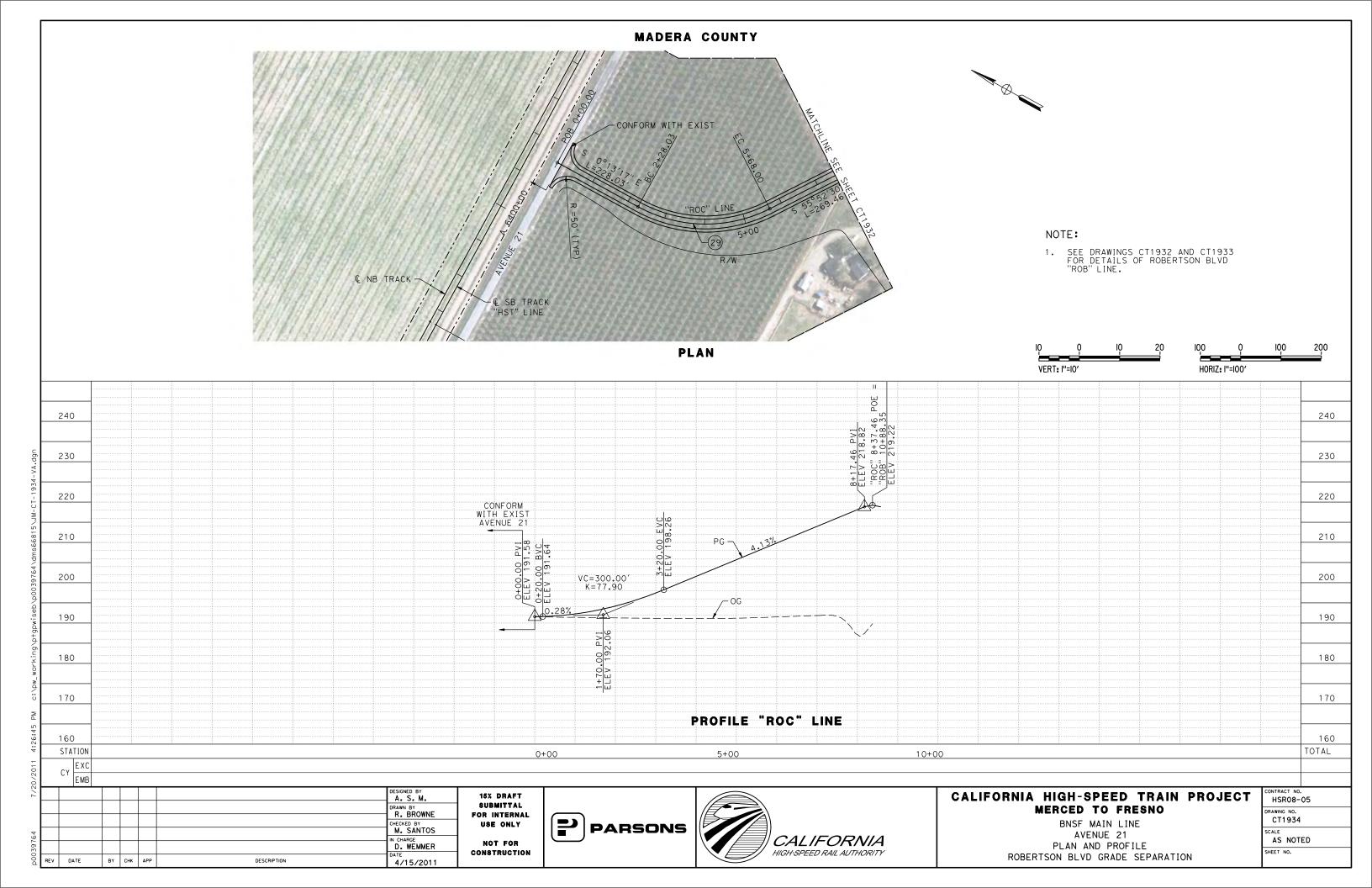


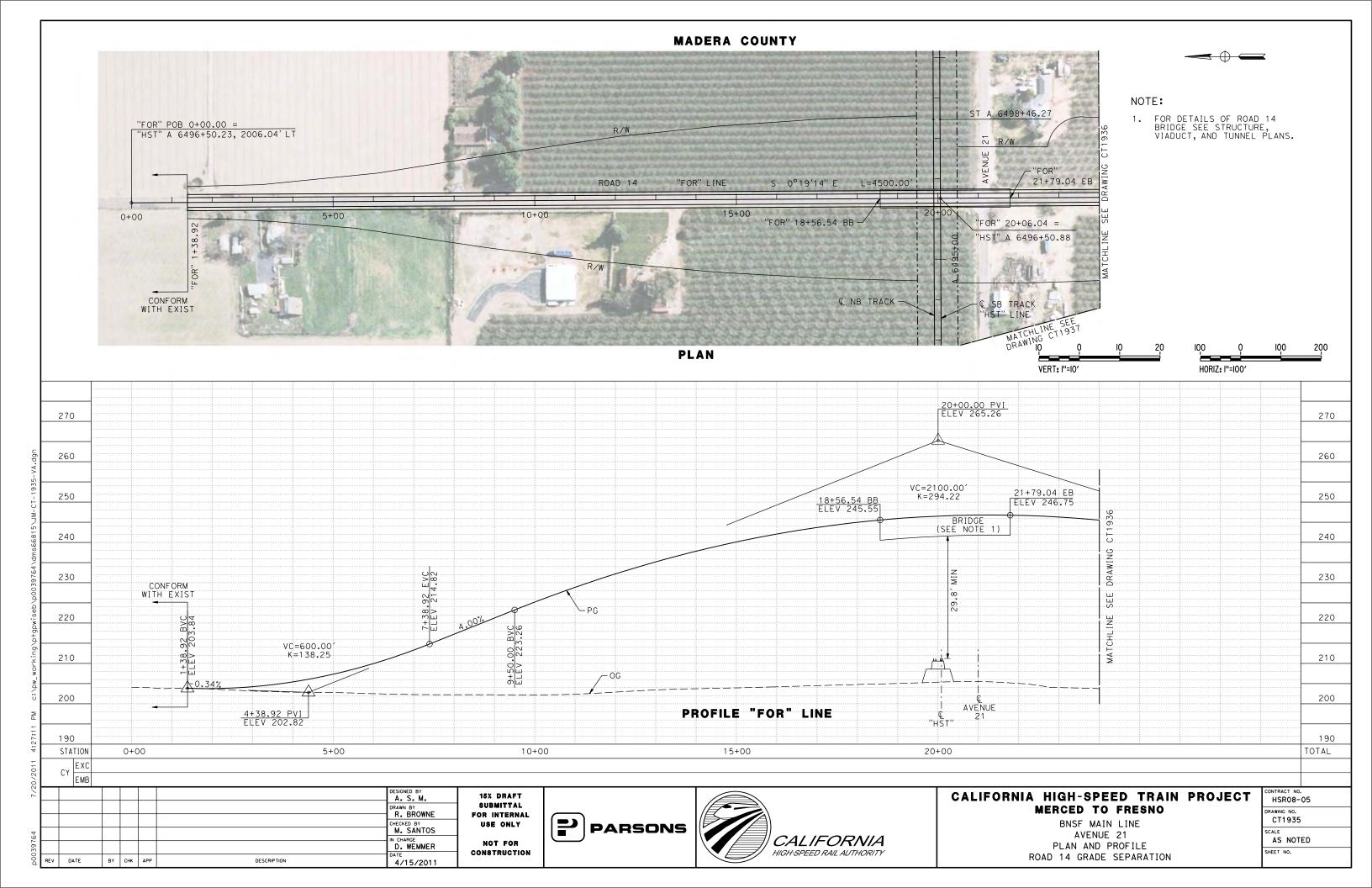


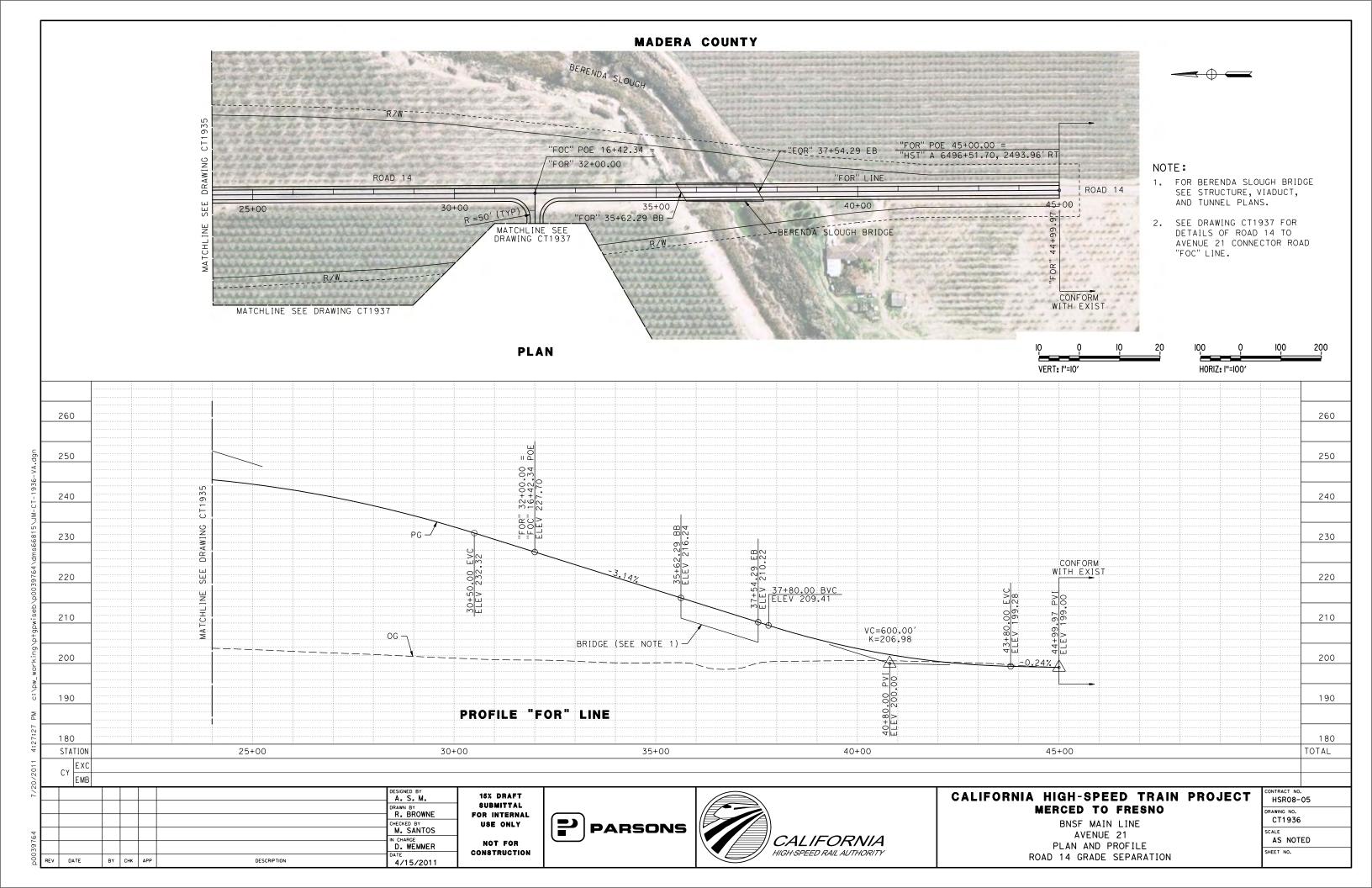


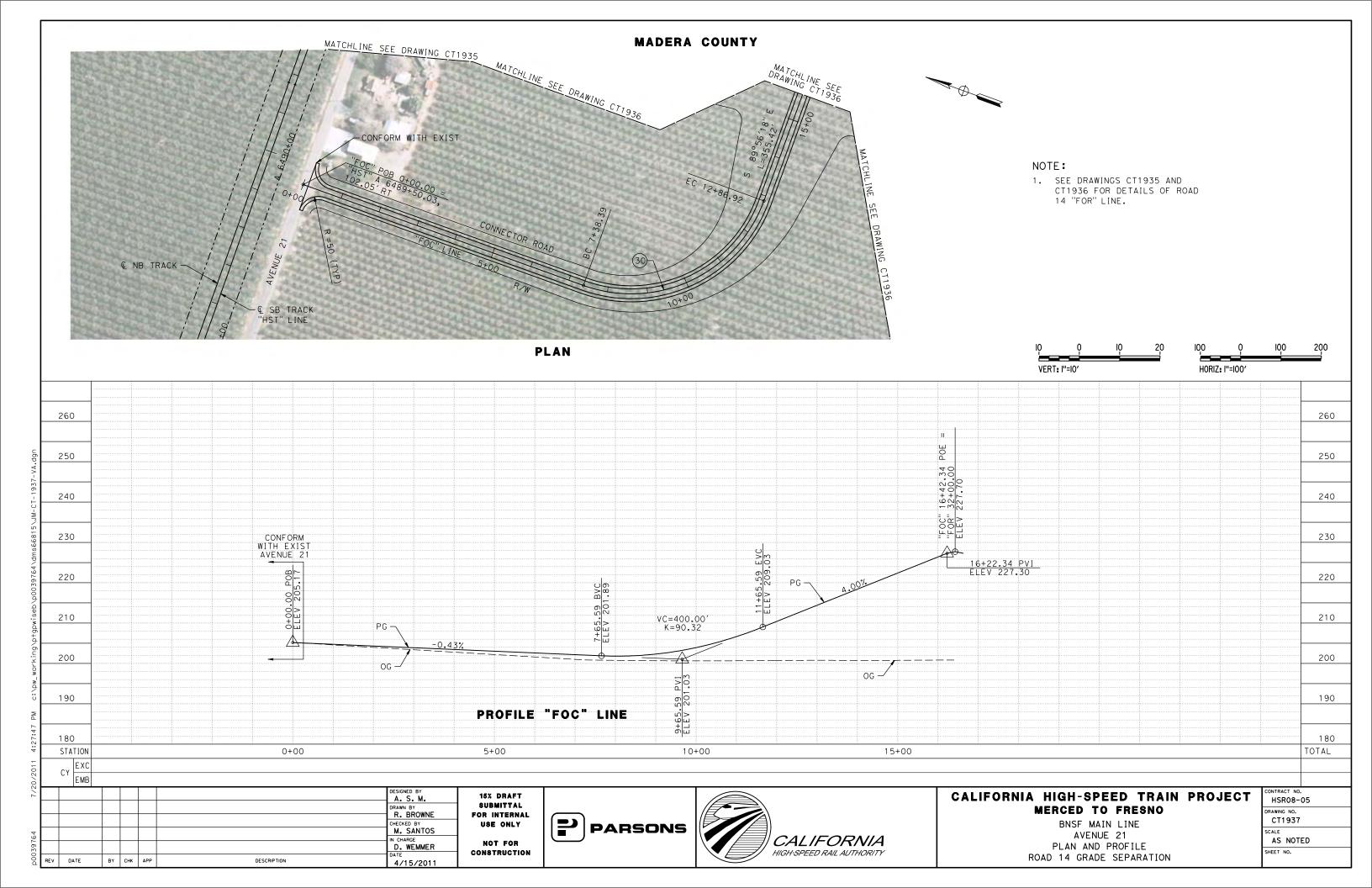












SHT NO.	DWG NO.		DRA	WING LINE		LE				[ORAV	WING Line	TIT 4	LE				•	SHEI L	ET Ine							SI	IEI L	T INE	TIT 6	LE	
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													GENE	ERA	\L																	
1	SB1101	UPRR/SR	99 /	AL TERNA	TIVE			1	AVENUE	21						IN	IDE X	OF D	RAWI	NGS				SHEET	T 1	0	F					
1	SB1102	UPRR/SR	99 /	AL TERNA	TIVE			1	AVENUE	21						S1	TRUCT	TURE	INDE	X M	IAP			SHEET	T 1	0	F					
											C	VERI	HEAD	В	RIDGE	S																
1	ST1101	UPRR/SR	99 N	MAIN LII	NE/ W	ΙΥΕ	CONNECT	ION	AVENUE	21						RC	DAD 1	16 0	VERHE	EAD				PLANN	NIN	G :	STL	IDY				
	ST1102	UPRR/SR	99 N	MAIN LII	NE			1	AVENUE	21						RC	DAD 1	171/2	OVE	RHE	AD			PLANN	NIN	G '	STL	IDY	SHE	ET 1	OF	2
	ST1103	UPRR/SR	99 V	WYE CON	INECT:	ION		1	AVENUE	21						RC	DAD 1	171/2	OVE	RHE	ΑD			PLANN	NIN	G '	STL	ΙDΥ	SHE	ET 2	OF.	2
	ST1104	UPRR/SR	99 N	MAIN LI	NE			1	AVENUE	21						RC	DAD 1	19 0	VERH	EAD				PLANN	NIN	G :	STL	ΙDΥ				
	ST1105	UPRR/SR	99 N	MAIN LII	NE			1	AVENUE	21						RC	DAD 2	20 0	VERH(EAD				PLANN	NIN	G :	STL	ΙDΥ				
	ST1106	UPRR/SR	99 V	WYE CON	INECT:	ION		1	VENUE	21						Δ١	√E NUE	22	OVE	RHE	٩D			PLANN	NIN	G '	SΤι	IDY				
	ST1115	UPRR/SR	99 V	WYE CON	INECT:	ION		1	AVENUE	21						Α١	√E NUE	21	/2 0	VER	HΕΔ	D		PLANN	NIN	G '	STL	ΙDΥ				
	ST1180	UPRR/SR	99 N	MERCED	CONN	ECTI	NC		AVENUE	21						G	STRE	EET (OVERI	HE A[)			PLANN	NIN	G '	STL	DΥ				
								+																								
																																-

						DESIGNED BY H. LEE	
						DRAWN BY J. RENTERIA	
						CHECKED BY B. DOLAN	
						IN CHARGE A. BOONE	
REV	DATE	ВΥ	СНК	ΔPP	DESCRIPTION	DATE 04/29/2011	l

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION



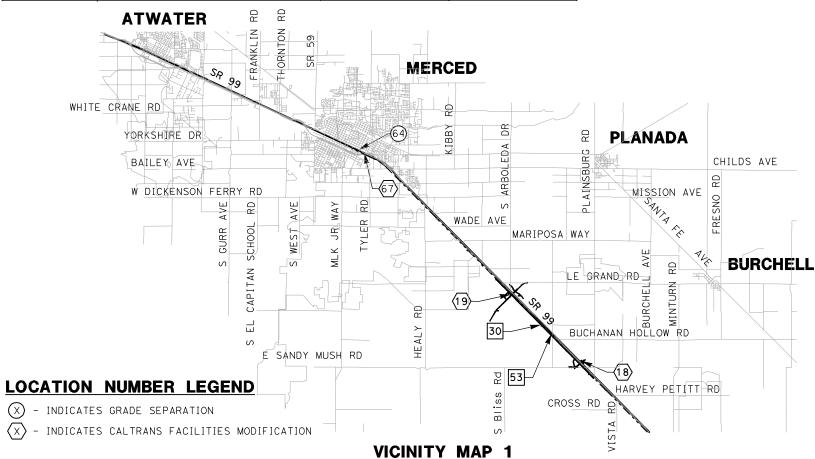


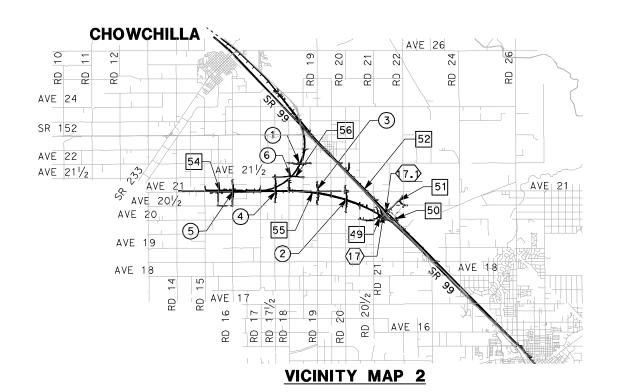
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

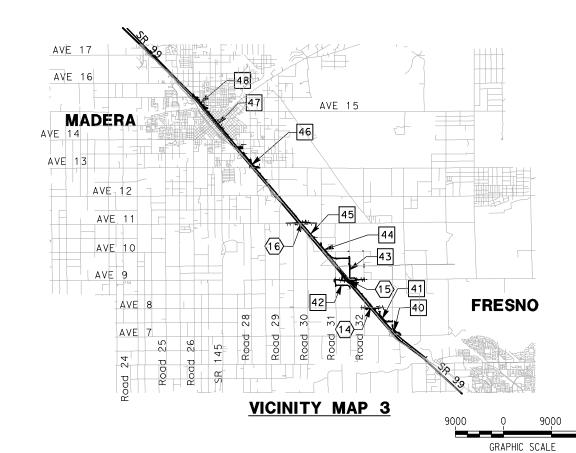
UPRR/SR 99 ALTERNATIVE AVENUE 21 INDEX OF DRAWINGS SHEET 1 OF 1

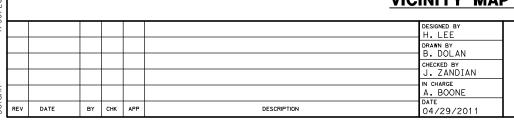
CONTRACT NO.
HSR06-007
DRAWING NO.
SB1101
SCALE
No scale

SHEET NO.









RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

RECORD SET
Technical Services, inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



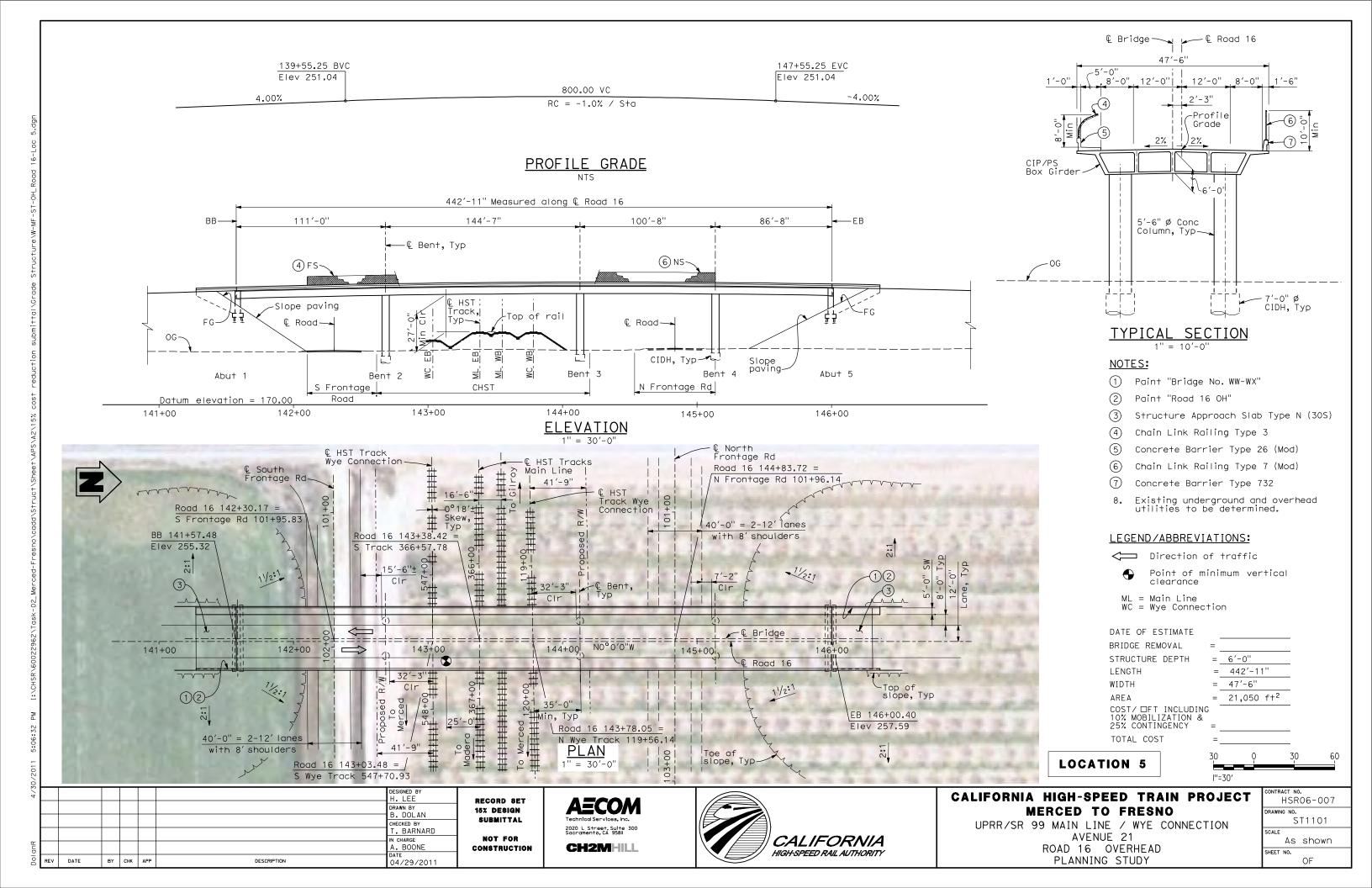
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

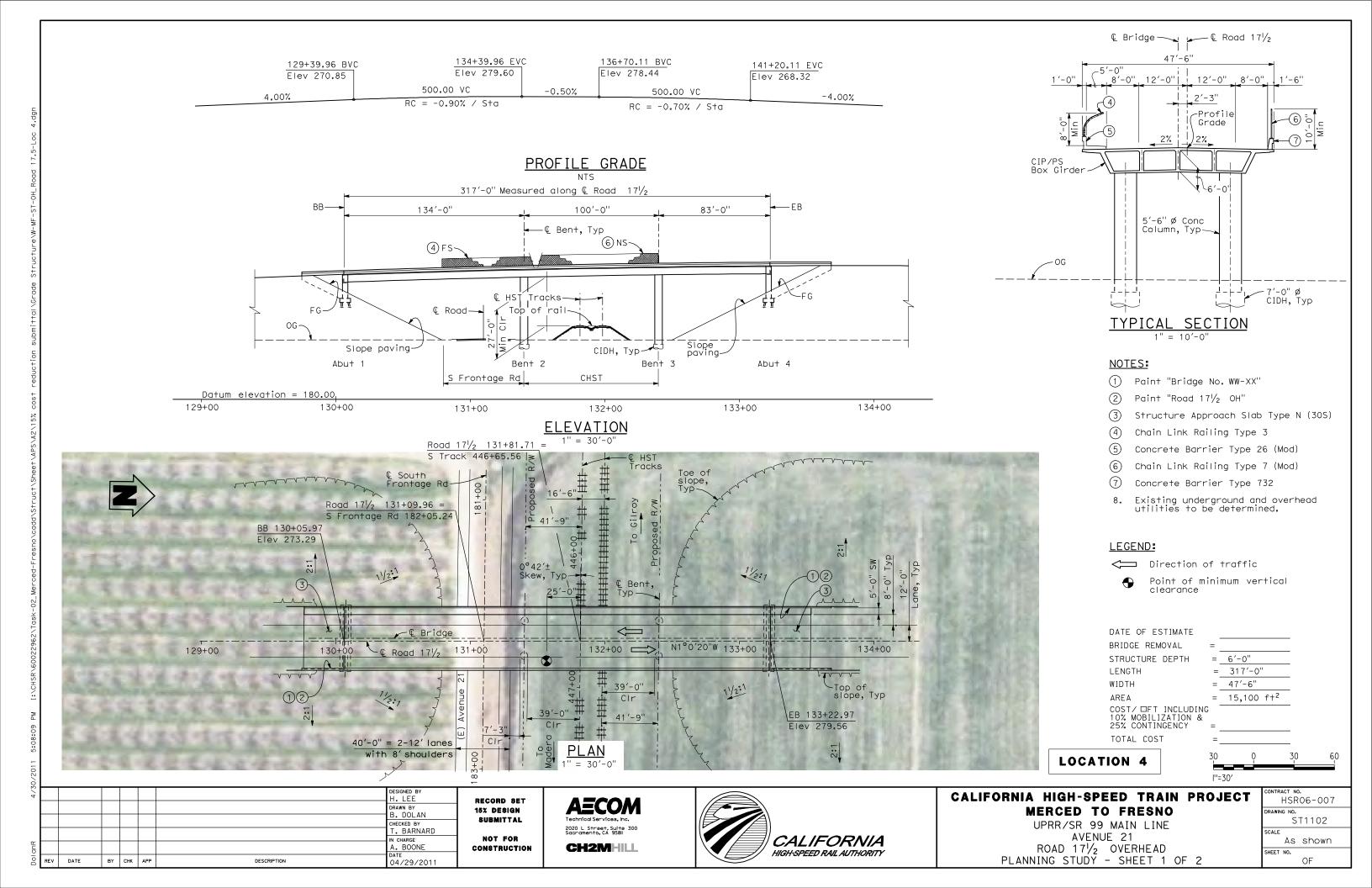
UPRR/SR99 ALTERNATIVE AVENUE 21 STRUCTURE INDEX MAP SHEET 1 OF 1

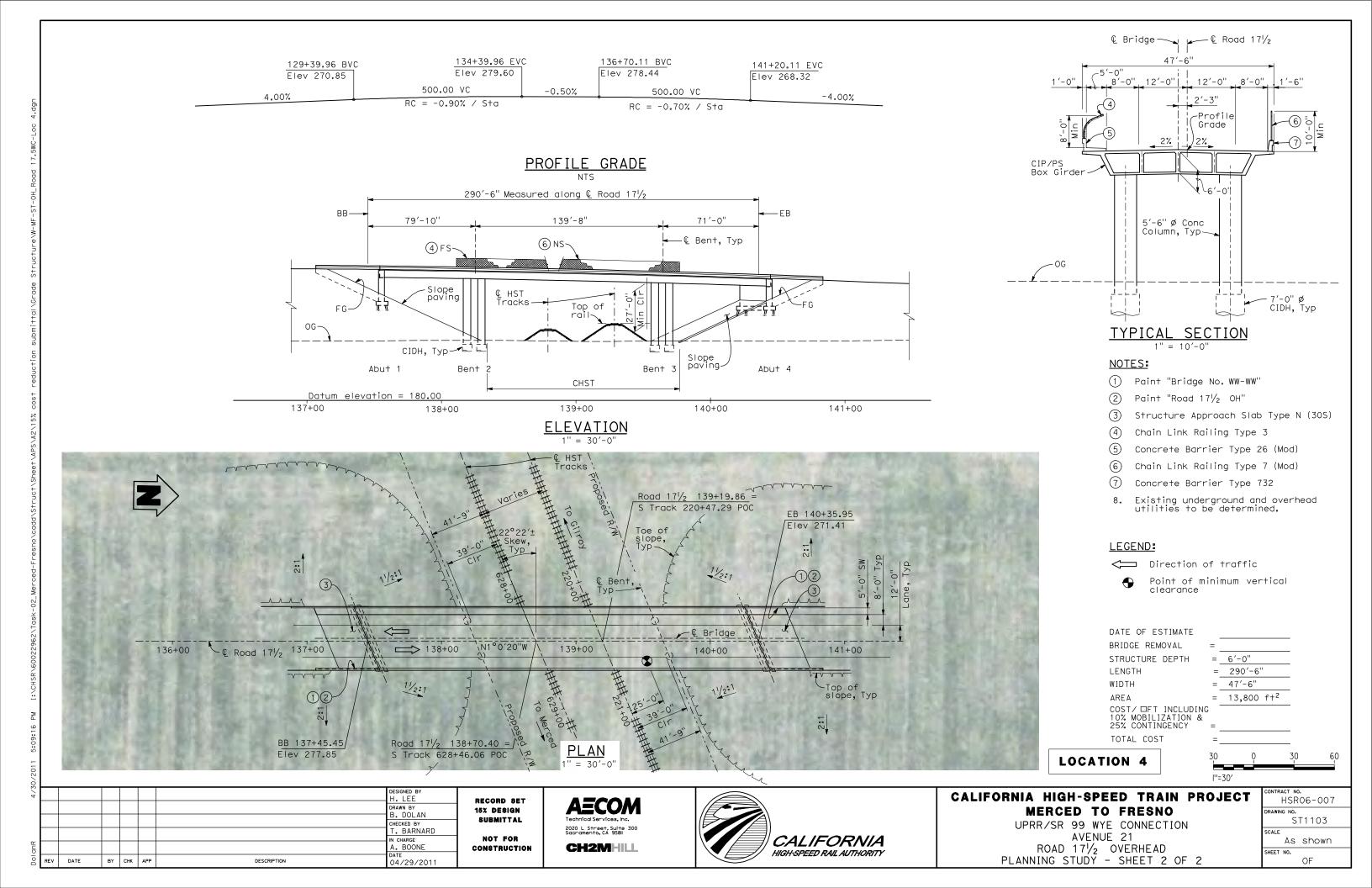
CONTRACT NO.
HSR06-007
DRAWING NO.
SB1102
SCALE
No scale
CHEET NO

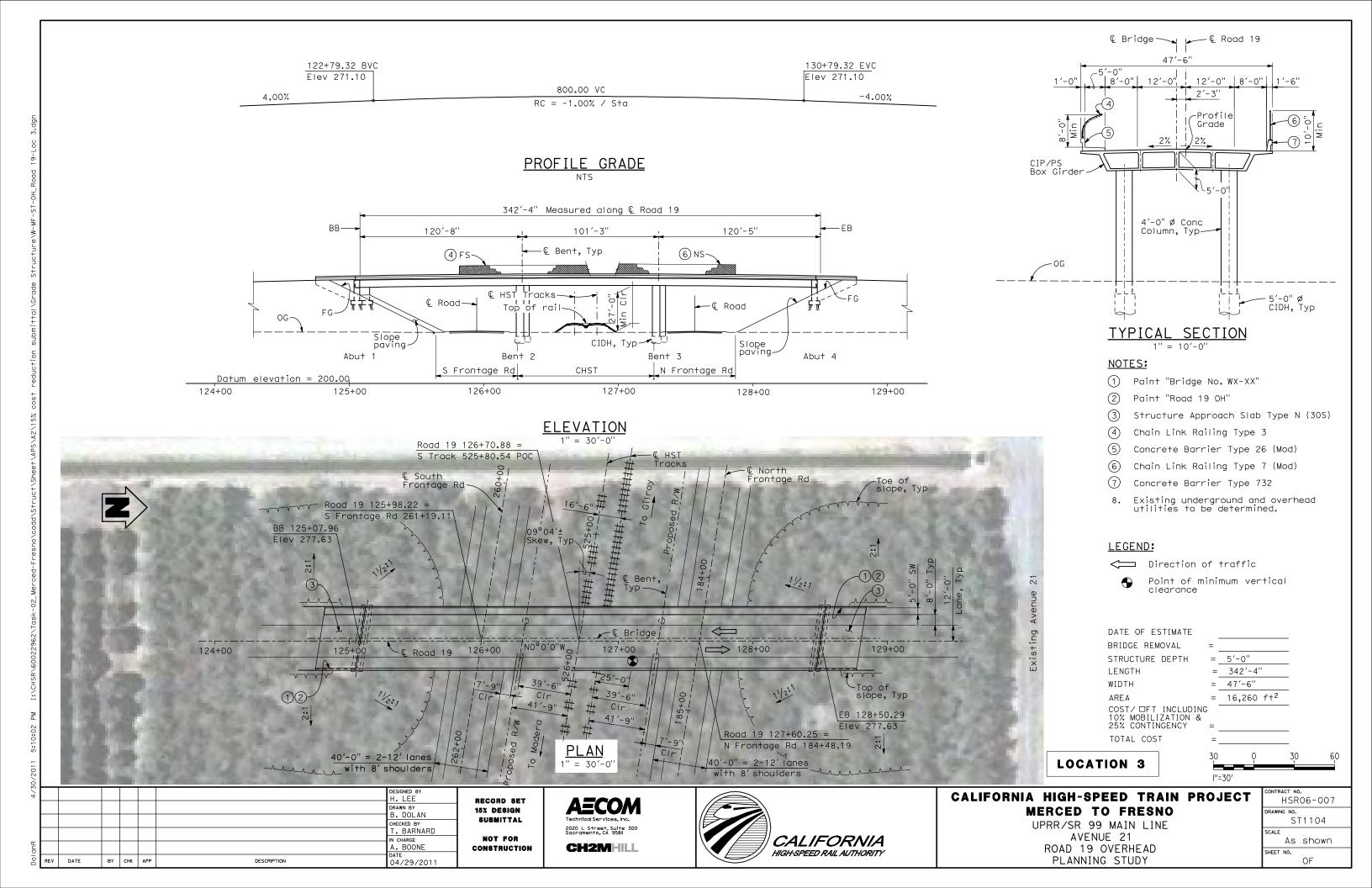
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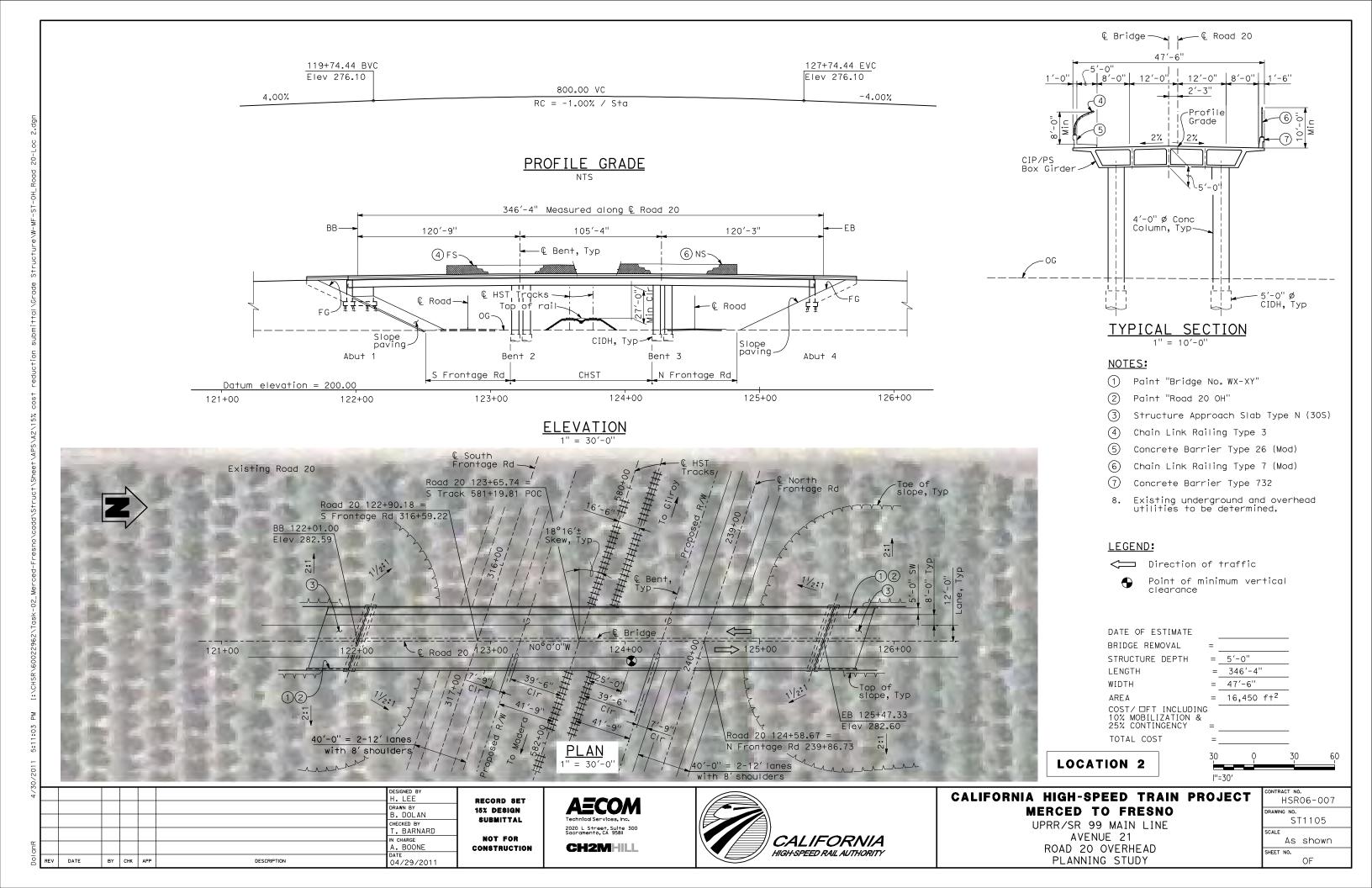
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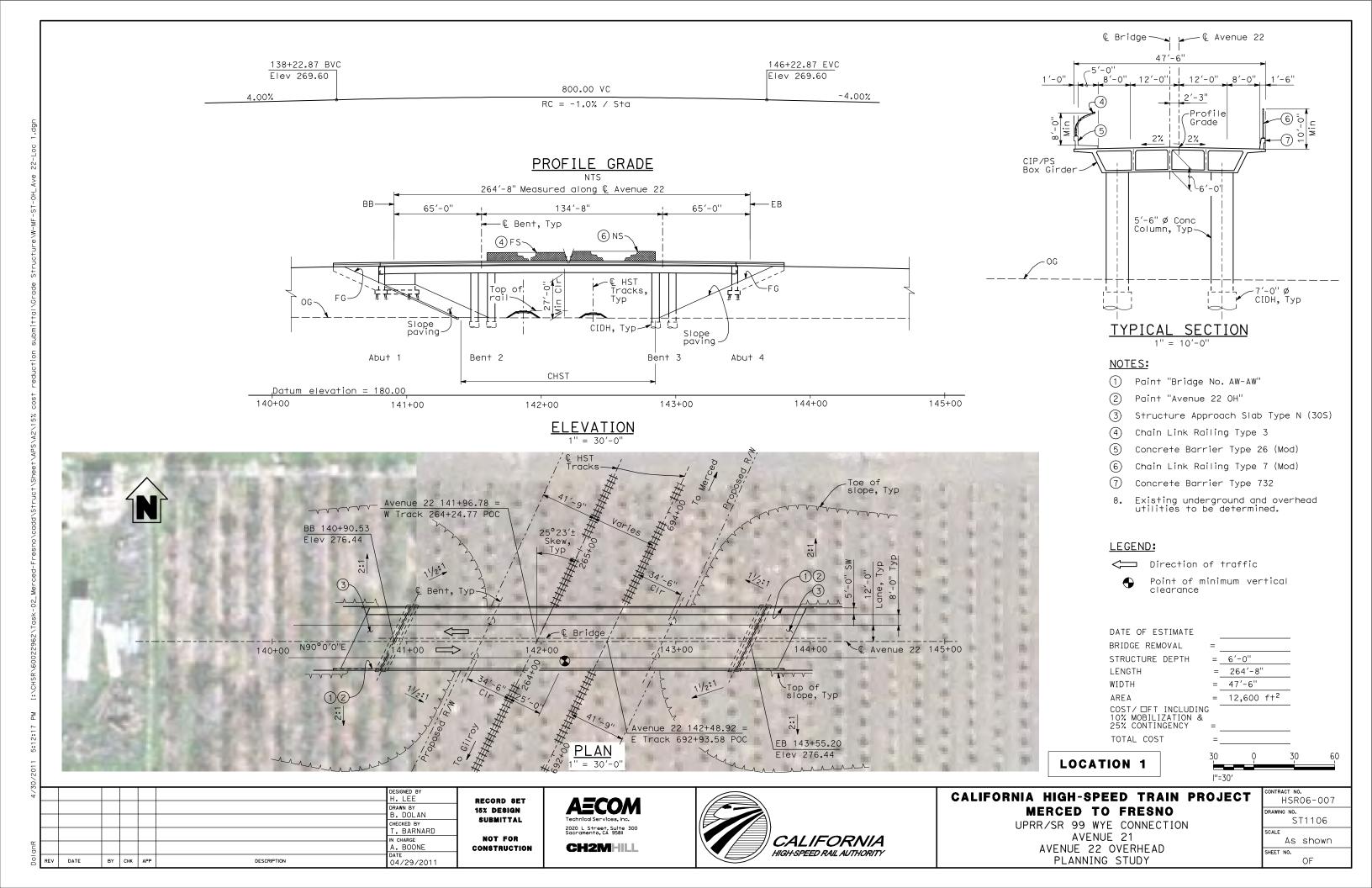


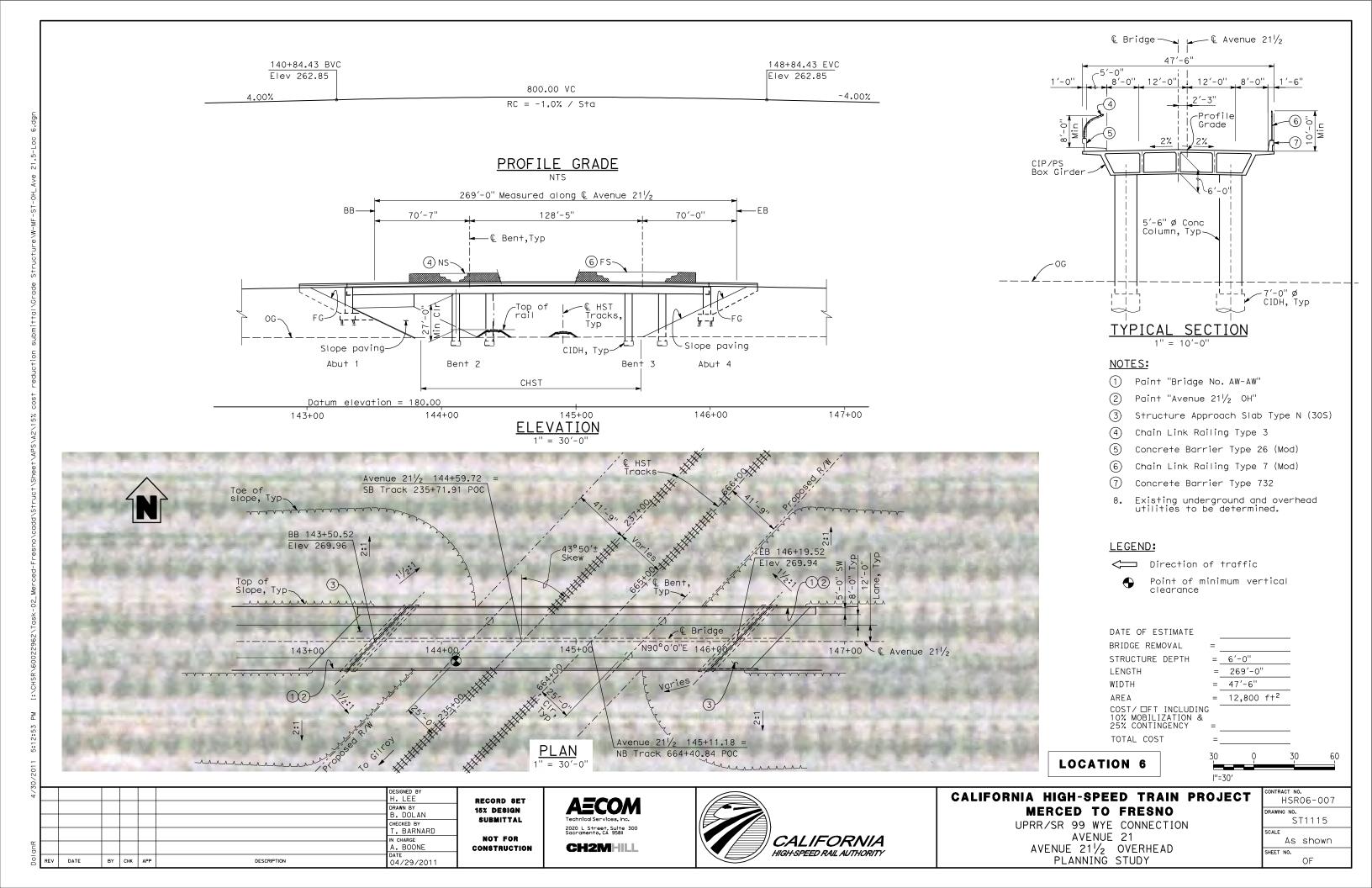


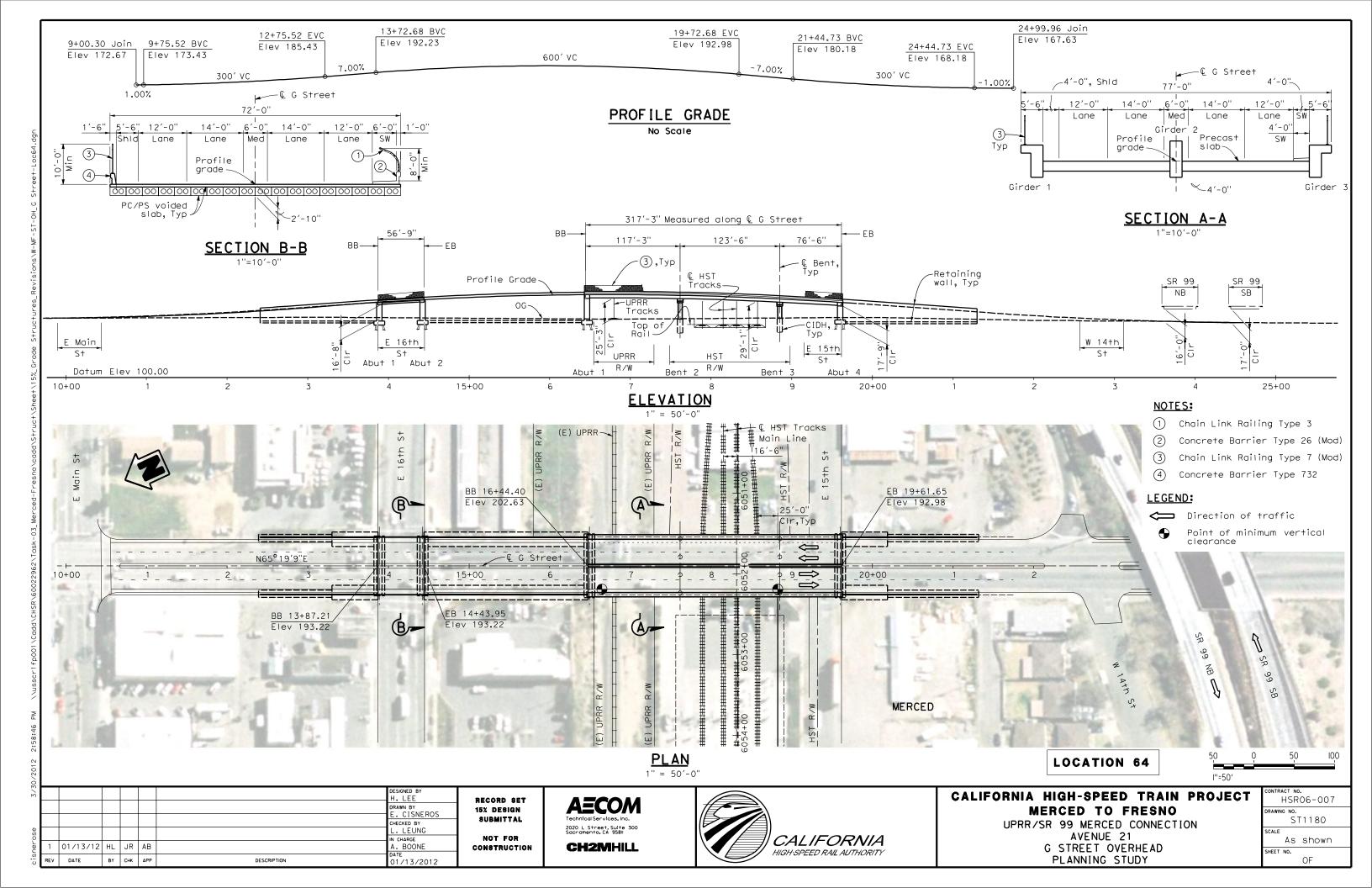












						DESIGNED BY R. LI
						DRAWN BY A. TRINH
						CHECKED BY A. SILVER
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 06/30/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT ED TO FRESNO

RR/SR99-(AVE 21) GENERAL EX OF DRAWINGS SHEET 1 OF 2

CONTRACT NO.	
HSR06-007	
DRAWING NO.	
B6990-B	
SCALE	
NONE	

OF

SHEET NO.

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	UPRF
CALIFORNIA	į (
HIGH-SPEED RAIL AUTHORITY	INDEX
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DRAWING TITLE

LINE 6

LOCATION NO.	SHT DWG NO. NO.	DRAWING TITLE Line 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING LINE
		= •	GENERAL		
	B6990-B	UPRR/SR99 - (AVE 21)	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 2
	B6991-B	UPRR/SR99 - (AVE 21)	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 2
	B6992-B B7000-B	UPRR/SR99 - (AVE 21) UPRR/SR99 - (AVE 21)	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES INDEX MAP	SHEET 1 OF 1 SHEET 1 OF 2
	B7001-B	UPRR/SR99 - (AVE 21)		INDEX MAP	SHEET 2 OF 2
		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 8 - OVERHEAD	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 11 - OVERHEAD AVENUE 20 & 20 1/2 - INTERCHANGE ALT 1	KEY MAP	SHEET 1 OF 1 SHEET 1 OF 1
		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20 1/2 - INTERCHANGE ALT 2	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	KEY MAP	SHEET 1 OF 1
		UPRR/SR99 MERCED - (AVE 21) UPRR/SR99 - (AVE 21)	GRADE SEPARATION - LE GRAND RD INTERCHANGE HIGHWAY	KEY MAP TYPICAL CROSS SECTIONS	SHEET 1 OF 1 SHEET 1 OF 2
		UPRR/SR99 - (AVE 21)	HIGHWAY	TYPICAL CROSS SECTIONS	SHEET 2 OF 2
		UPRR/SR99 - (AVE 21)		GENERAL STAGE CONSTRUCTION AND TRAFFIC F	
14	CT7000-B	UPRR/SR99 MAINLINE - (AVE 21)	LAYOUT AVENUE 8 - OVERHEAD	LAYOUT	SHEET 1 OF 3
14		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 8 - OVERHEAD	LAYOUT	SHEET 2 OF 3
14	CT7002-B	UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 8 - OVERHEAD	LAYOUT	SHEET 3 OF 3
15		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANCE	LAYOUT	SHEET 1 OF 7
15 15		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE AVENUE 9 - INTERCHANGE	LAYOUT LAYOUT	SHEET 2 OF 7 SHEET 3 OF 7
15		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 4 OF 7
15	CT7007-B	UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE	LAYOUT	SHEET 5 OF 7
15		UPRR/SR99 MAINLINE - (AVE 21)	AVE 9 - INTERCHANGE SR 99 NB OFF/SB ON RAMPS	LAYOUT	SHEET 6 OF 7
15 16		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	AVE 9 - INTERCHANGE SR 99 NB ON/SB OFF RAMPS AVENUE 11 - OVERHEAD	LAYOUT LAYOUT	SHEET 7 OF 7 SHEET 1 OF 5
16		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 2 OF 5
16		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 3 OF 5
16		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 11 - OVERHEAD	LAYOUT	SHEET 4 OF 5
16 17		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 11 - OVERHEAD AVENUE 20 & 20.5 - INTERCHANGE ALT 1	LAYOUT LAYOUT	SHEET 5 OF 5 SHEET 1 OF 8
17		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 1	LAYOUT	SHEET 2 OF 8
17		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 1	LAYOUT	SHEET 3 OF 8
17		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANCE ALT 1	LAYOUT	SHEET 4 OF 8
17 17		UPRR/SR99 MAINLINE/MERCED - (AVE 21) UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 1 AVENUE 20 & 20.5 - INTERCHANGE ALT 1	LAYOUT LAYOUT	SHEET 5 OF 8 SHEET 6 OF 8
17	CT7021-B	UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 1	LAYOUT	SHEET 7 OF 8
17	CT7022-B	UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 1	LAYOUT	SHEET 8 OF 8
17.1		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANCE ALT 2	LAYOUT	SHEET 1 OF 8
17.1 17.1		UPRR/SR99 MAINLINE/MERCED - (AVE 21) UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 2 AVENUE 20 & 20.5 - INTERCHANGE ALT 2	LAYOUT LAYOUT	SHEET 2 OF 8 SHEET 3 OF 8
17.1		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 2	LAYOUT	SHEET 4 OF 8
17.1	CT7027-B	UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 2	LAYOUT	SHEET 5 OF 8
17.1		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 2	LAYOUT	SHEET 6 OF 8
17.1 17.1		UPRR/SR99 MAINLINE/MERCED - (AVE 21) UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVENUE 20 & 20.5 - INTERCHANGE ALT 2 AVENUE 20 & 20.5 - INTERCHANGE ALT 2	LAYOUT LAYOUT	SHEET 7 OF 8 SHEET 8 OF 8
17		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVE 20/20.5 - IC ALT 1&2 SR99 SB ON/NB OFF RAMP	LAYOUT	SHEET 1 OF 3
17	CT7032-B	UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVE 20/20.5 - IC ALT 1&2 SR99 SB ON/NB OFF RAMP	LAYOUT	SHEET 2 OF 3
17		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	AVE 20/20.5 - IC ALT 1&2 SR99 SB OFF/NB ON RAMP	LAYOUT	SHEET 3 OF 3
18 18		UPRR/SR99 MERCED - (AVE 21) UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	LAYOUT LAYOUT	SHEET 1 OF 3 SHEET 2 OF 3
18		UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 3 OF 3
19	CT7037-B	UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 1 OF 5
19		UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 2 OF 5
19 19		UPRR/SR99 MERCED - (AVE 21) UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - LE GRAND RD INTERCHANGE GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT LAYOUT	SHEET 3 OF 5 SHEET 4 OF 5
19		UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 5 OF 5
19	CT7042-B	UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - LE GRAND RD IC SR99 SB ON-RAMP	LAYOUT	SHEET 1 OF 2
19	CT7043-B	UPRR/SR99 MERCED - (AVE 21)	GRADE SEPARATION - LE GRAND RD IC SR99 SB OFF-RAMP	LAYOUT	SHEET 2 OF 2
14	CT8000-B	UPRR/SR99 MAINLINE - (AVE 21)	PROFILE AVENUE 8 - OVERHEAD	PROFILE	SHEET 1 OF 4
14	CT8001-B	UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 8 - OVERHEAD	PROF ILE	SHEET 2 OF 4
14		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 8 - OVERHEAD	PROFILE	SHEET 3 OF 4
14 15		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 8 - OVERHEAD	PROFILE PROFILE	SHEET 4 OF 4 SHEET 1 OF 11
15		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE AVENUE 9 - INTERCHANGE	PROFILE	SHEET 2 OF 11
15		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 3 OF 11
15		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 9 - INTERCHANGE	PROFILE	SHEET 4 OF 11

28/							
3/5							DESIGNED BY
,							R. LI
							DRAWN BY
5							A. TRINH
SC							CHECKED BY
eye							A. SILVER
e e							IN CHARGE
R=R							A. BOONE
USEI							DATE
Š	REV	DATE	BY	CHK	APP	DESCRIPTION	06/30/2011

LOCATION SHT DWG

NO. NO.

NO.

DRAWING TITLE

LINE 3

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99-(AVE 21) GENE INDEX OF SHEET

CONTRACT NO.
HSR06-007
DRAWING NO.
B6991-B
SCALE
NONE

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R99-(AVE ZI)		
·	SCALE	
ERAL		NON
F DRAWINGS	SHEET NO.	
「 2 OF 2	###	OF

15 CT8009-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 NB OFF-RAMP PROFILE SHEET 15 CT8010-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 NB ON-RAMP PROFILE SHEET 15 CT8012-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 NB ON-RAMP PROFILE SHEET 15 CT8012-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 NB ON-RAMP PROFILE SHEET 15 CT8013-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 SB ON-RAMP PROFILE SHEET 15 CT8014-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 SB ON-RAMP PROFILE SHEET 16 CT8014-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 SB OFF-RAMP PROFILE SHEET 16 CT8016-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8016-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8020-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT 1 PROFILE SHEET 17 CT8020-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT 1 PROFILE SHEET 17 CT8022-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANCE ALT	T 5 0F 11 T 6 0F 11 T 7 0F 11 T 8 0F 11 T 9 0F 11 T 10 0F 11 T 10 F 11 T 10 F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 5 0F 5 T 1 0F 8 T 3 0F 8 T 3 0F 8 T 3 0F 8 T 4 0F 8
15	T 7 0F 11 T 8 0F 11 T 9 0F 11 T 10 0F 11 T 11 0F 11 T 11 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8 T 4 0F 8
15	T 8 0F 11 T 9 0F 11 T 10 0F 11 T 11 0F 11 T 11 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 5 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8 T 4 0F 8
15 CT8011-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 NB ON-RAMP PROFILE SHEET 15 CT8012-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 SB ON-RAMP PROFILE SHEET 15 CT8013-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 SB ON-RAMP PROFILE SHEET 15 CT8014-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANCE SR 99 SB OFF-RAMP PROFILE SHEET 16 CT8015-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8017-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8017-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8019-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 17 CT8020-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 17 CT8021-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8021-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET	T 8 0F 11 T 9 0F 11 T 10 0F 11 T 11 0F 11 T 11 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 5 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8 T 4 0F 8
15 CT8012-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP PROFILE SHEET 15 CT8013-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP PROFILE SHEET 15 CT8014-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 9 - INTERCHANGE SR 99 SB OFF-RAMP PROFILE SHEET 16 CT8015-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8016-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8017-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8019-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8019-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 17 CT8020-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8020-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8022-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE / MERCED -	T 9 0F 11 T 10 0F 11 T 11 0F 11 T 1 1 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 1 0F 8 T 3 0F 8 T 3 0F 8 T 4 0F 8
15	T 10 0F 11 T 11 0F 11 T 1 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 1 0F 8 T 3 0F 8 T 4 0F 8
15	T 11 0F 11 T 1 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 1 1 0F 8 T 2 0F 8 T 3 0F 8 T 4 0F 8
16	T 1 0F 5 T 2 0F 5 T 3 0F 5 T 4 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8 T 4 0F 8
16 CT8016-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8017-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8018-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 16 CT8019-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 17 CT8020-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8021-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8022-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE /MERCED - (AVE 21) AVENUE 20 & 20.5 - I	T 2 0F 5 T 3 0F 5 T 4 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8 T 4 0F 8
16	T 3 0F 5 T 4 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8
16	T 4 0F 5 T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8
16 CT8019-B UPRR/SR99 MAINLINE - (AVE 21) AVENUE 11 - OVERHEAD PROFILE SHEET 17 CT8020-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8021-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8022-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 18 SHEET 19 SHEET 10 SHEET 11 SHEET 12 SHEET 13 SHEET 14 STREET 15 SHEET 16 SHEET 17 STREET 18 SHEET 19 SHEET 19 SHEET 19 SHEET 19 SHEET 19 SHEET 10 SHEET 10 SHEET 11 SHEET 12 SHEET 13 SHEET 14 STREET 15 SHEET 16 SHEET 17 STREET 18 SHEET 19 SHEET 19 SHEET 19 SHEET	T 5 0F 5 T 1 0F 8 T 2 0F 8 T 3 0F 8
17 CT8020-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8021-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8022-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 18 SHEET 19 SHEET SHEET 19 SHEET SHEET SHEET 19 SHEET SHEET SHEET 19 SHEET SHEET SHEET 19 SHEET SHEET SHEET SHEET 19 SHEET SHEET SHEET SHEET 19 SHEET SHEET SHEET SHEET SHEET 19 SHEET S	T 1 OF 8 T 2 OF 8 T 3 OF 8 T 4 OF 8
17 CT8021-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8022-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET	T 2 OF 8 T 3 OF 8 T 4 OF 8
17 CT8022-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8023-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET	T 3 OF 8
17 CT8023-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET	T 4 OF 8
17 CT8024-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET 17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET	
17 CT8025-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 1 PROFILE SHEET	1 5 ()F X
I 1/ I RUSAER I IDERIALERIA I INTERNATIONAL MEDICALE I LAVE ST. LAVE ST. LAVE ST. LAVE ST. L. L. LOUNCE ALL I	T 6 OF 8
	T 7 OF 8
	T 8 OF 8
	T 1 OF 8
	T 2 OF 8
	T 3 OF 8
	T 4 OF 8
	T 5 OF 8
17.1 CT8033-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 2 PROFILE SHEET	T 6 OF 8
17.1 CT8034-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 2 PROFILE SHEET	T 7 OF 8
17.1 CT8035-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVENUE 20 & 20.5 - INTERCHANGE ALT 2 PROFILE SHEET	T 8 OF 8
17 CT8036-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVE 20 & 20.5 - IC ALT 1 & 2 SR99 NB OFF-RAMP PROFILE SHEET	T 1 0F 9
17 CT8037-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVE 20 & 20.5 - IC ALT 1 & 2 SR99 NB OFF-RAMP PROFILE SHEET	T 2 OF 9
17 CT8038-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVE 20 & 20.5 - IC ALT 1 & 2 SR99 NB ON-RAMP PROFILE SHEET	T 3 OF 9
17 CT8039-B UPRR/SR99 MAINLINE/MERCED - (AVE 21) AVE 20 & 20.5 - IC ALT 1 & 2 SR99 NB ON-RAMP PROFILE SHEET	T 4 0F 9
	T 5 0F 9
	T 6 OF 9
	T 7 0F 9
	T 8 0F 9
	T 9 0F 9
	T 1 OF 3
	T 2 OF 3
	T 3 OF 3
	T 1 0F 5
	T 2 OF 5
	T 3 0F 5
	T 4 0F 5
	T 5 0F 5
	T 1 0F 4
	T 2 OF 4
	T 3 OF 4
	T 4 0F 4
13 G10030 B G10030 B G1002 GATE 21) G1002 SE MINITION EL G10010 TO 10 303 30 G1 TOMBE TOUTE SHEET	1 7 01 4

DRAWING TITLE

LINE 4

DRAWING TITLE

LINE 5

DRAWING TITLE

LINE 6

MISCELLANEOUS

ALIGNMENT						
	HORIZONTAL					
BC EC PC PCC PI POB POC POE POT PRC PT R V, DS	BEGINNING OF CURVE END OF CURVE POINT OF CURVE POINT OF COMPOUNT CURVES POINT OF INTERSECTION OF TWO TANGENTS POINT OF BEGINNING POINT ON CURVE POINT OF ENDING POINT ON TANGENT POINT OF REVERSE CURVES POINT OF TANGENCY RADIUS OF CURVATURE IN FEET DESIGN VELOCITY IN MILES PER HOUR					
BVC EVC PVC PVI PVT VC	VERTICAL BEGIN OF VERTICAL CURVE END OF VERTICAL CURVE POINT OF VERTICAL CURVE (BEGINNING OF CURVE) POINT OF VERTICAL INTERSECTION (OF TANGENTS) POINT OF VERTICAL TANGENCY (ENDING OF CURVE) VERTICAL CURVE					

ALT	ALTERNATIVE
AVE	AVENUE
ВВ	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
Œ.	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT

HIGH SPEED TRAIN

HIGHWAY

INCH

INTERCHANGE

HŞT

HWY

ΙC

ΙN

STD

SD

TEL

LENGTH LEFT LT MBGR METAL BEAM GUARD RAIL ML MAINLINE MPH MILES PER HOUR MAXMUMIXAM MINMINIMUM Ν NORTH NB NORTH BOUND No, NO NUMBER NTS NOT TO SCALE ORIGINAL GROUND OG OVERHEAD O/H OH PG&E PACIFIC GAS & ELECTRIC PGL, FG PROFILE GRADE LINE RET RETAINING RAILROAD RR RD ROAD R/W RIGHT OF WAY RT RIGHT SB SOUTH BOUND SHLD SHOULDER SR STATE ROUTE SHT SHEET SS SANITARY SEWER SSD STOPPING SIGHT DISTANCE ST STREET STA STATION

TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
ITE	TTPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER
	OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING OR EX RIGHT-OF-WAY BR
	RETAINING WALLS
	ORIGINAL GROUND
G16	GAS LINE (16")
—TC——	COMMUNICATION LINE
w	WATER LINE
—— FO —— ——	FIBER OPTIC LINE
——-Е———	ELECTRICAL LINE
×	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
—TC——	TELEPHONE LINE
———— P12 ————	PETROLEUM LINE (12")
——— (OH) ———	OVERHEAD
→ ♦ →	NORTH ARRROW
A	PVI
	MBGR
-	DIRECTION OF TRAVEL
250	PROPOSED CONTOUR

						DESIGNED BY R. LI
						DRAWN BY A. TRINH
						CHECKED BY A. SILVER
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 06/30/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION

STANDARD

TANGENT

TELEPHONE

(OH) OVERHEAD LINE (UG) UNDERGROUND LINE

STRUCT, STR STRUCTURE

STORM DRAIN





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

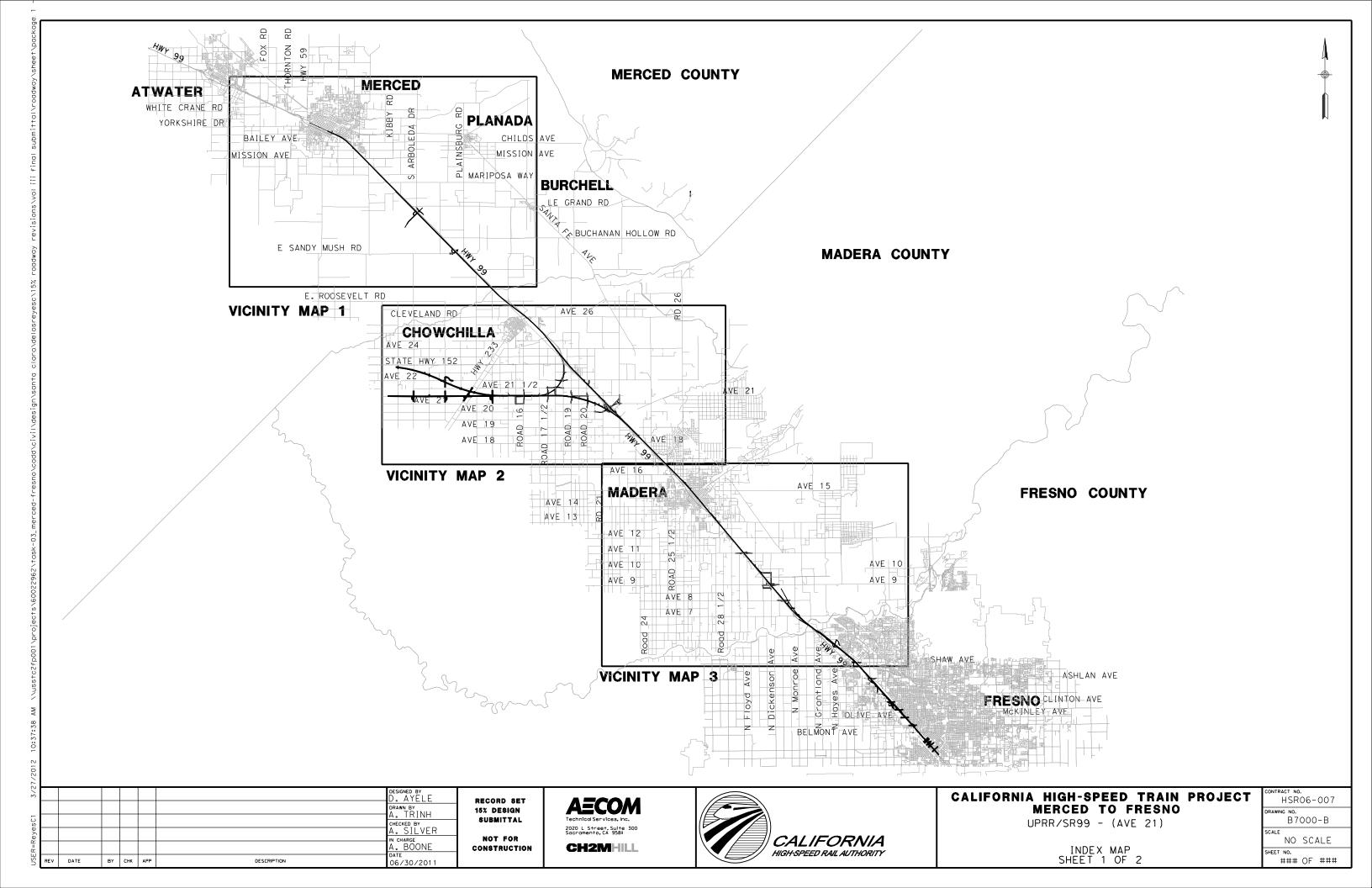
UPRR/SR99 - (AVE 21) GENERAL ABBREVIATIONS, SYMBOLS AND NOTES SHEET 1 OF 1

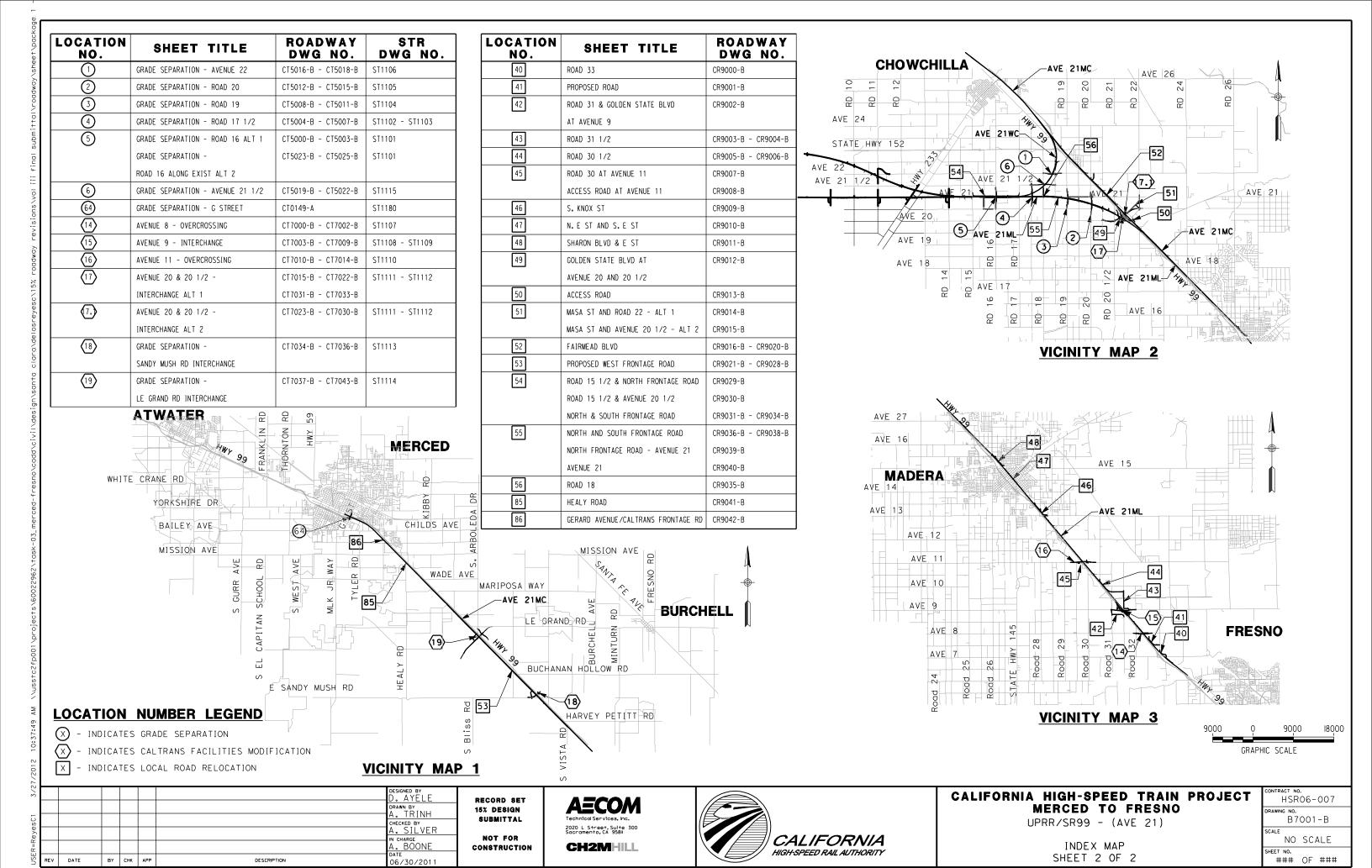
CONTRAC H		06-007	
DRAWING NO. B6992-B			
SCALE	10	SCALE	_

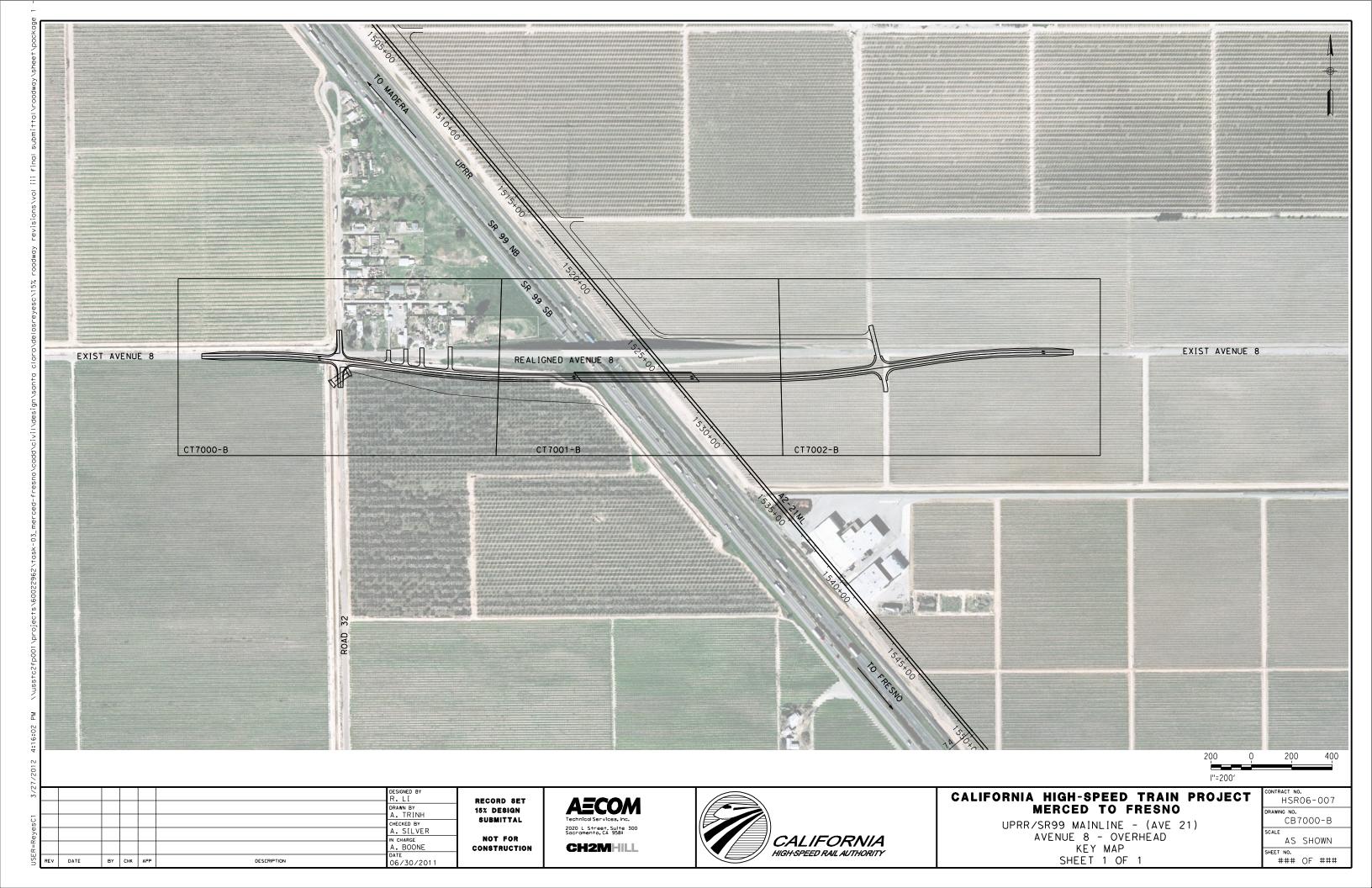
OF

EXISTING

BRIDGE FEATURES

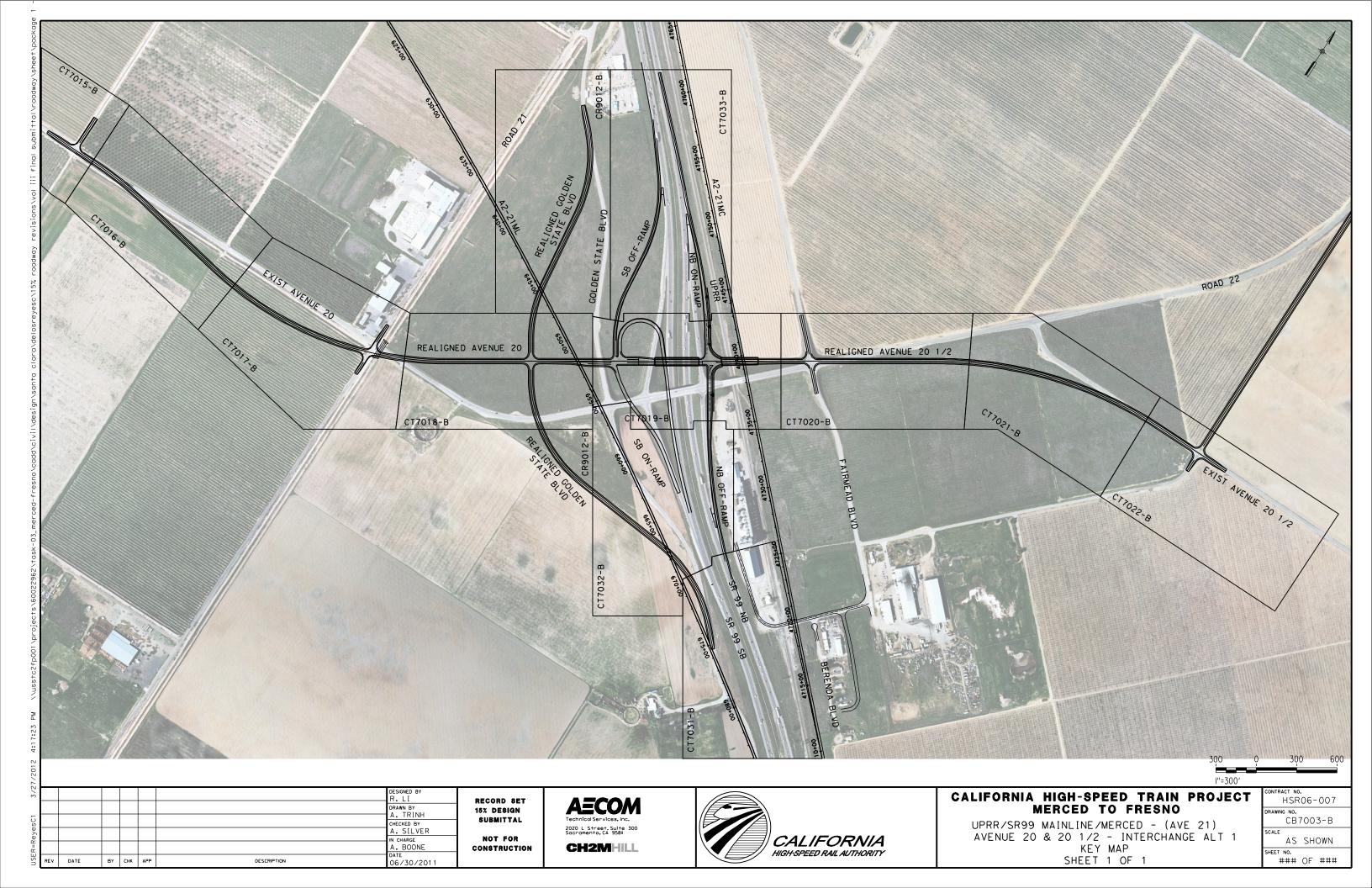


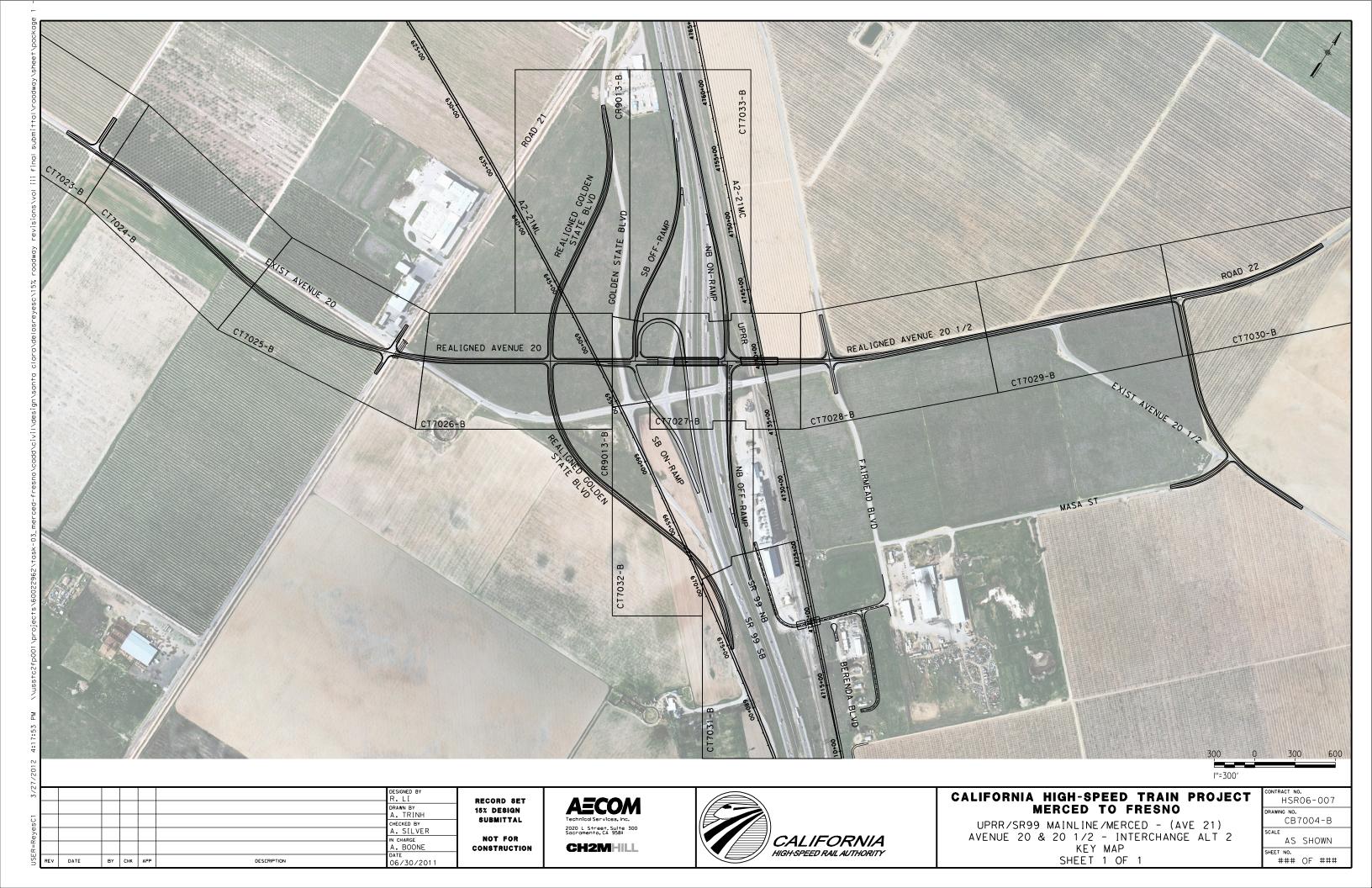


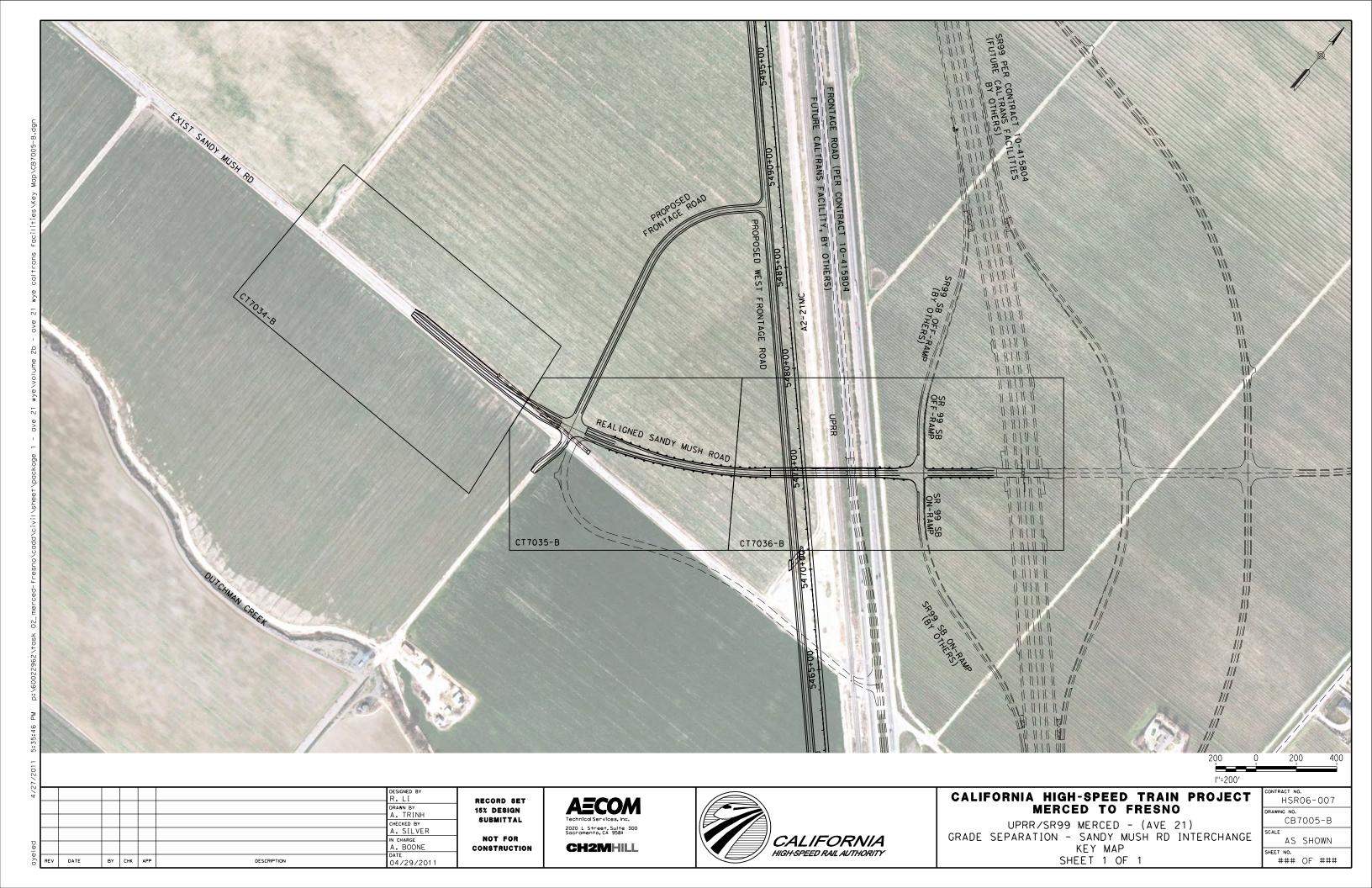


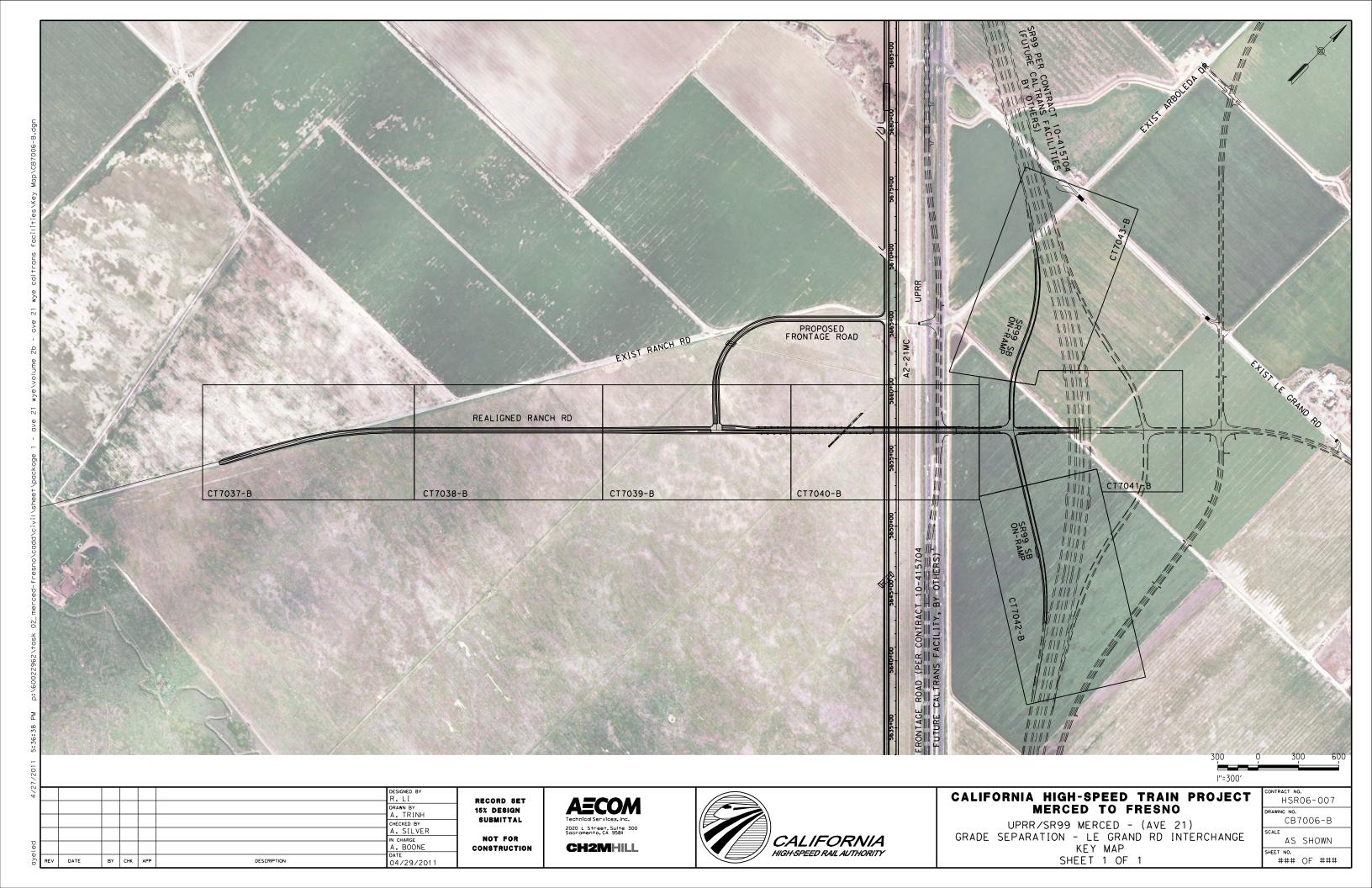
BY CHK APP

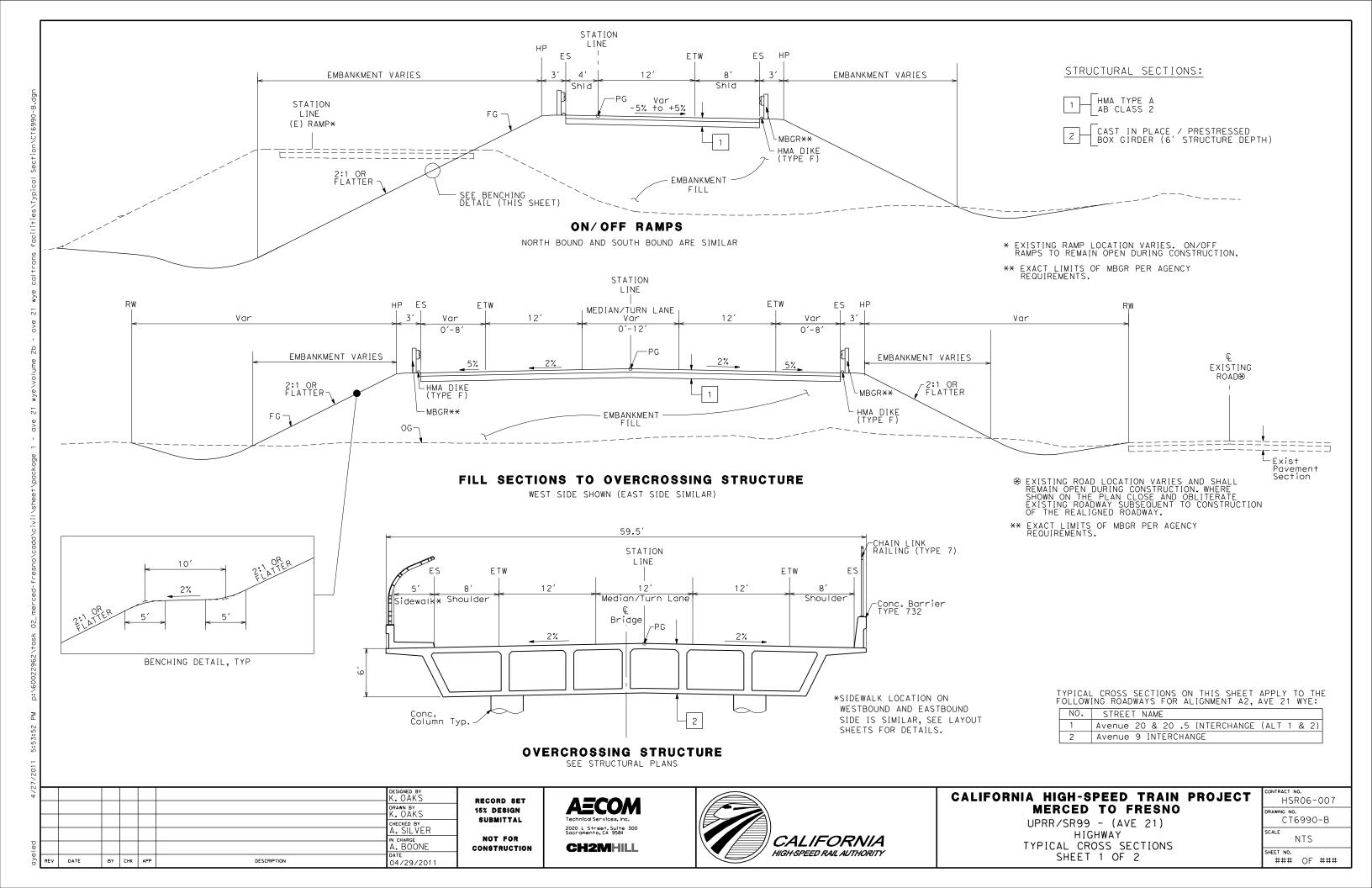
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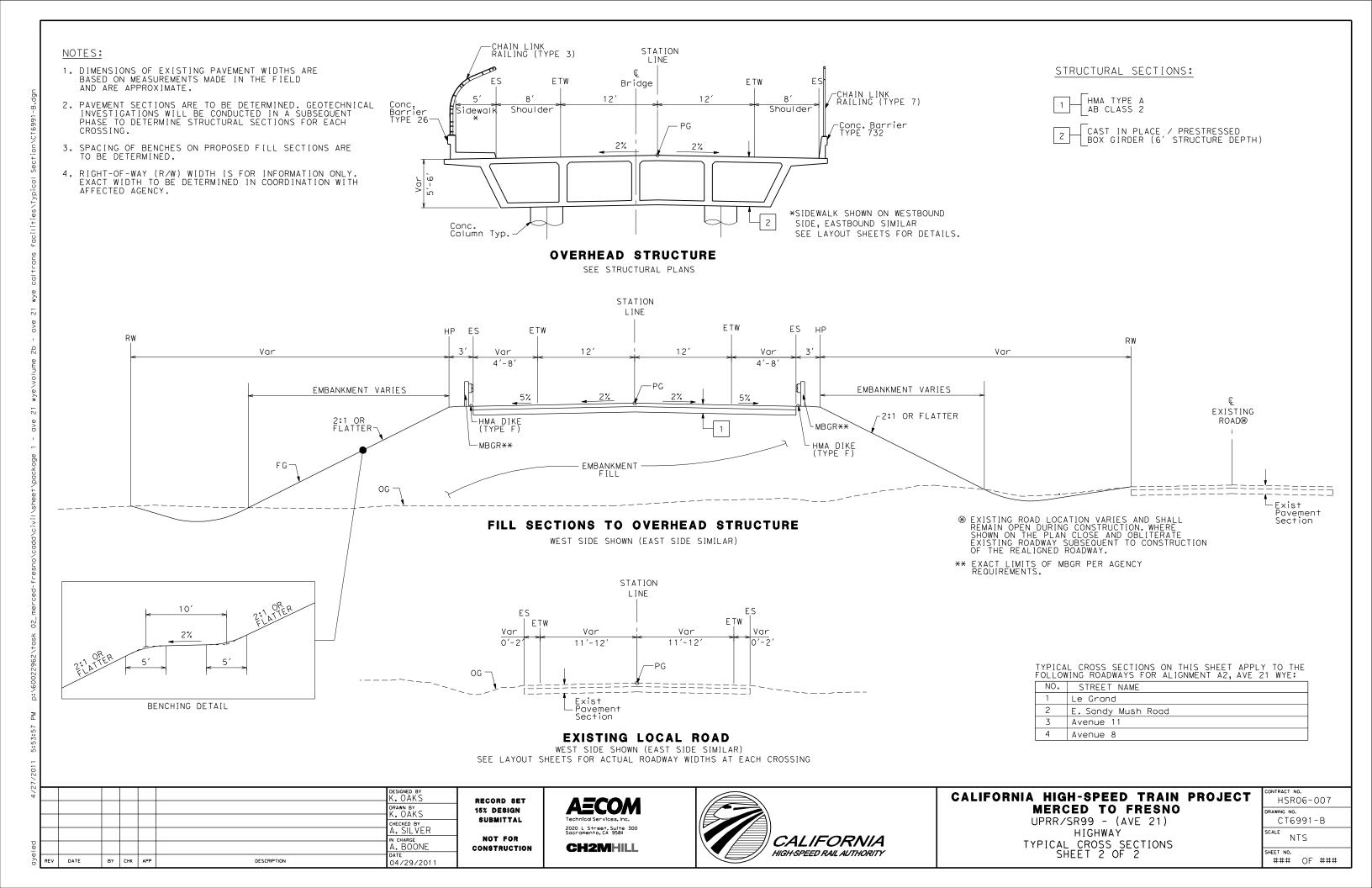


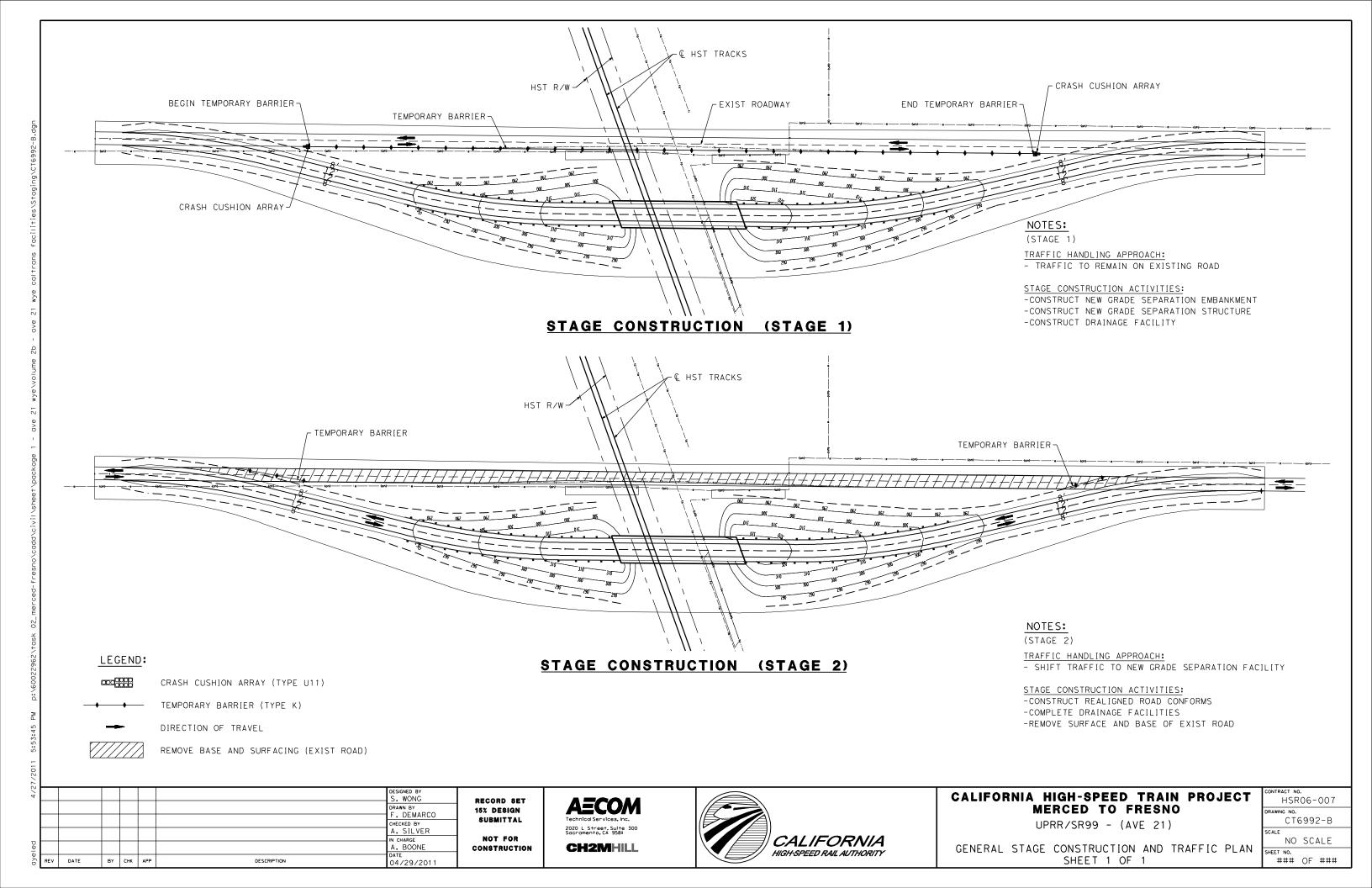


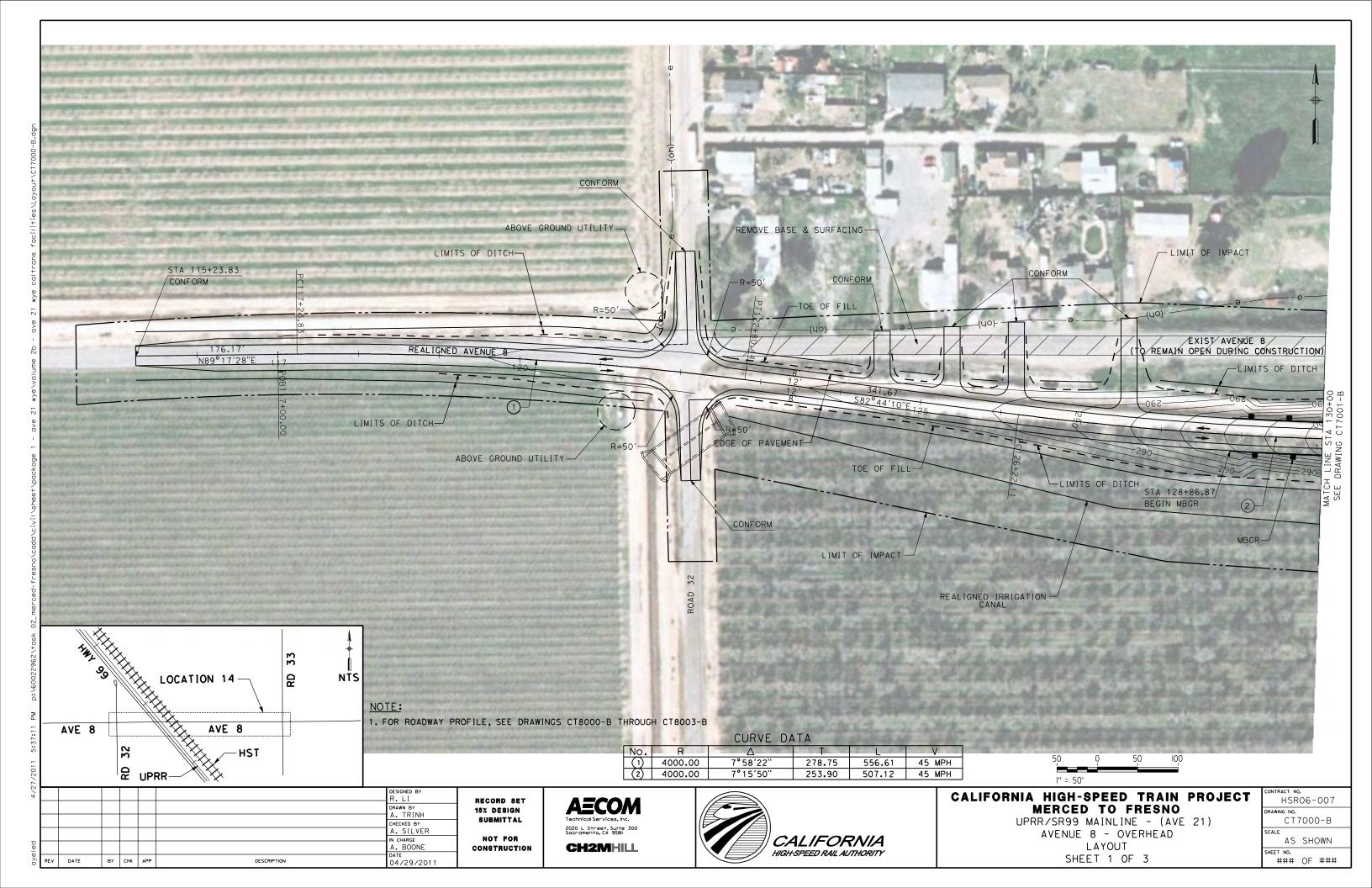


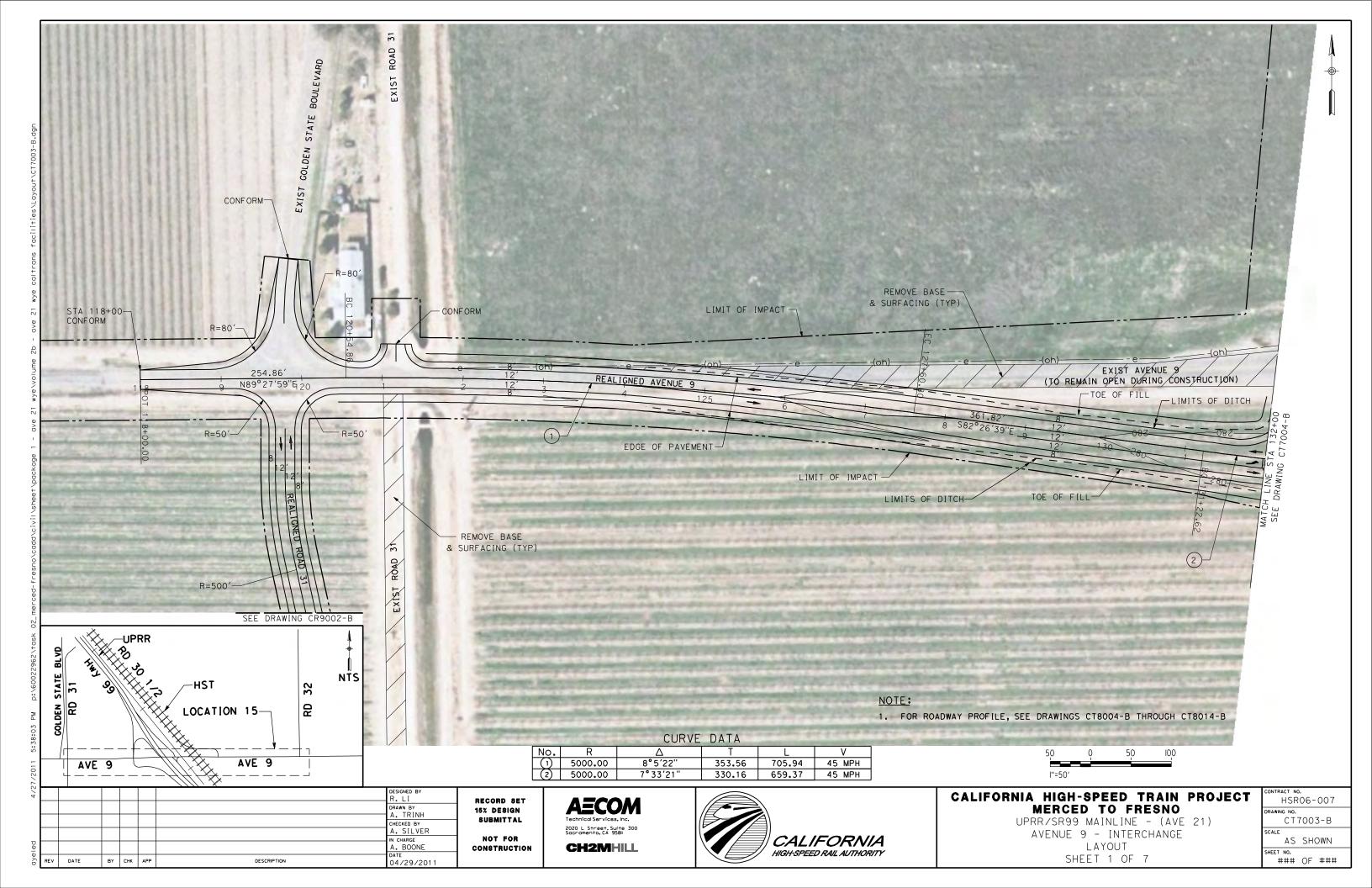


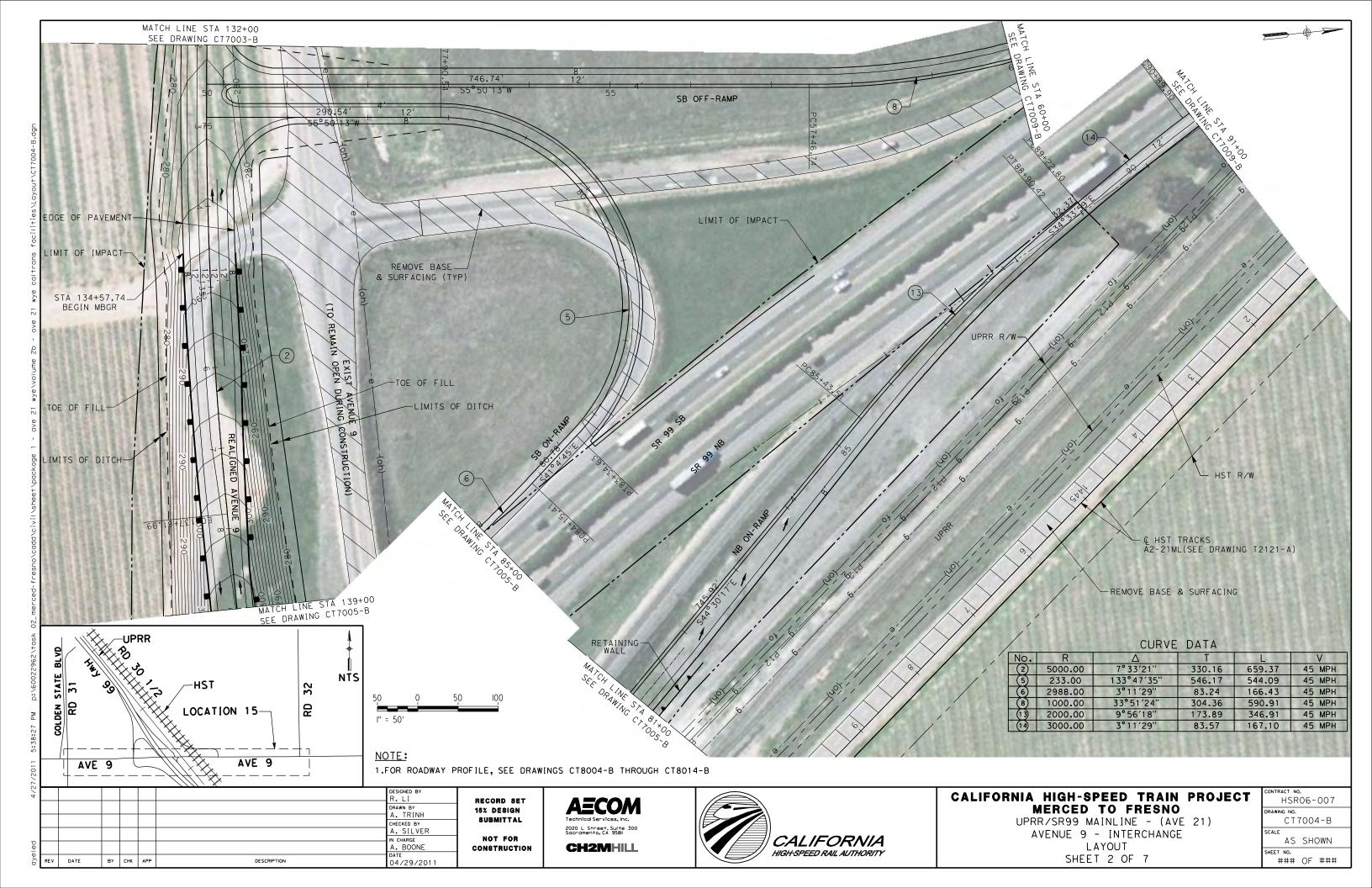


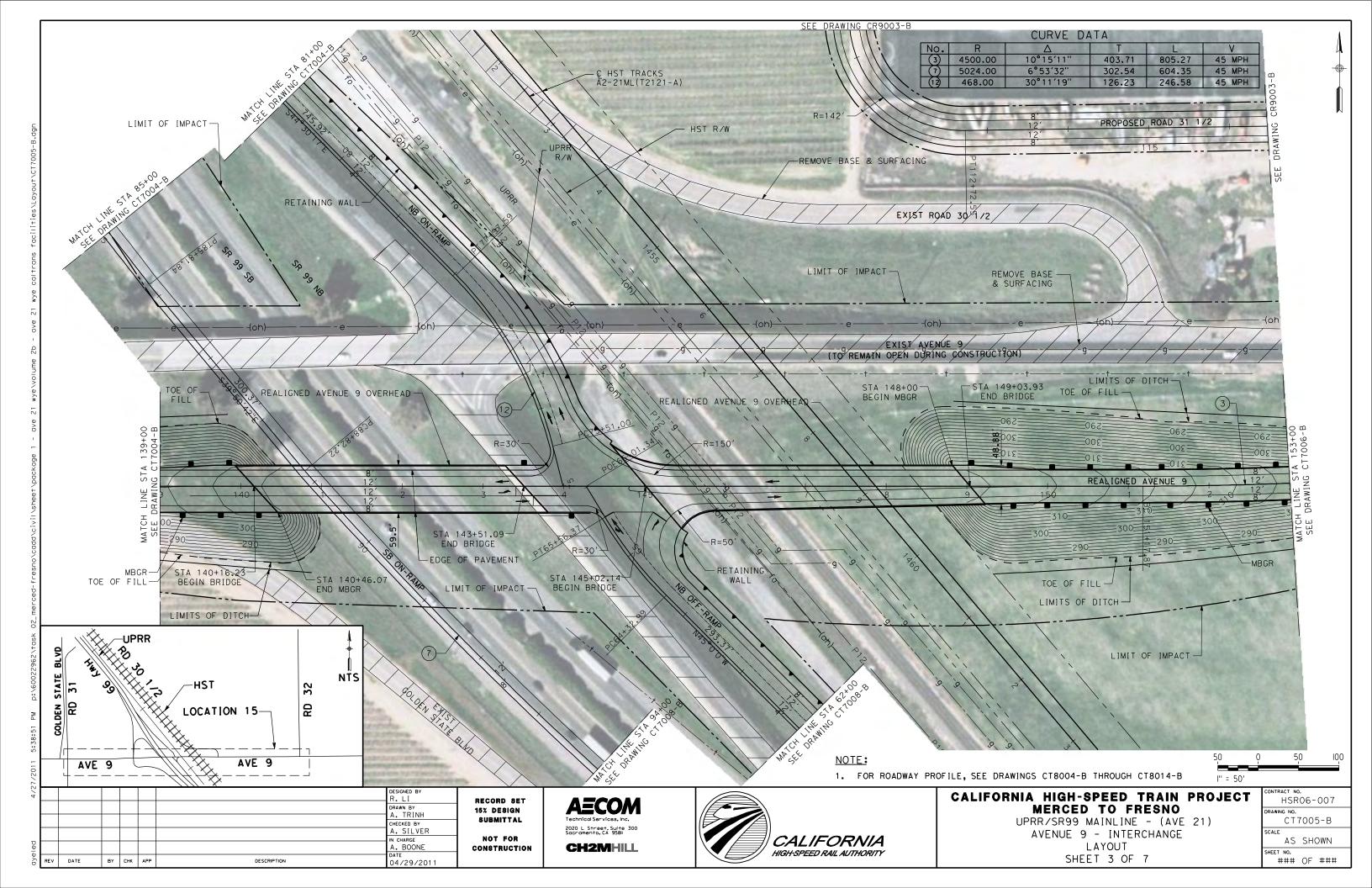


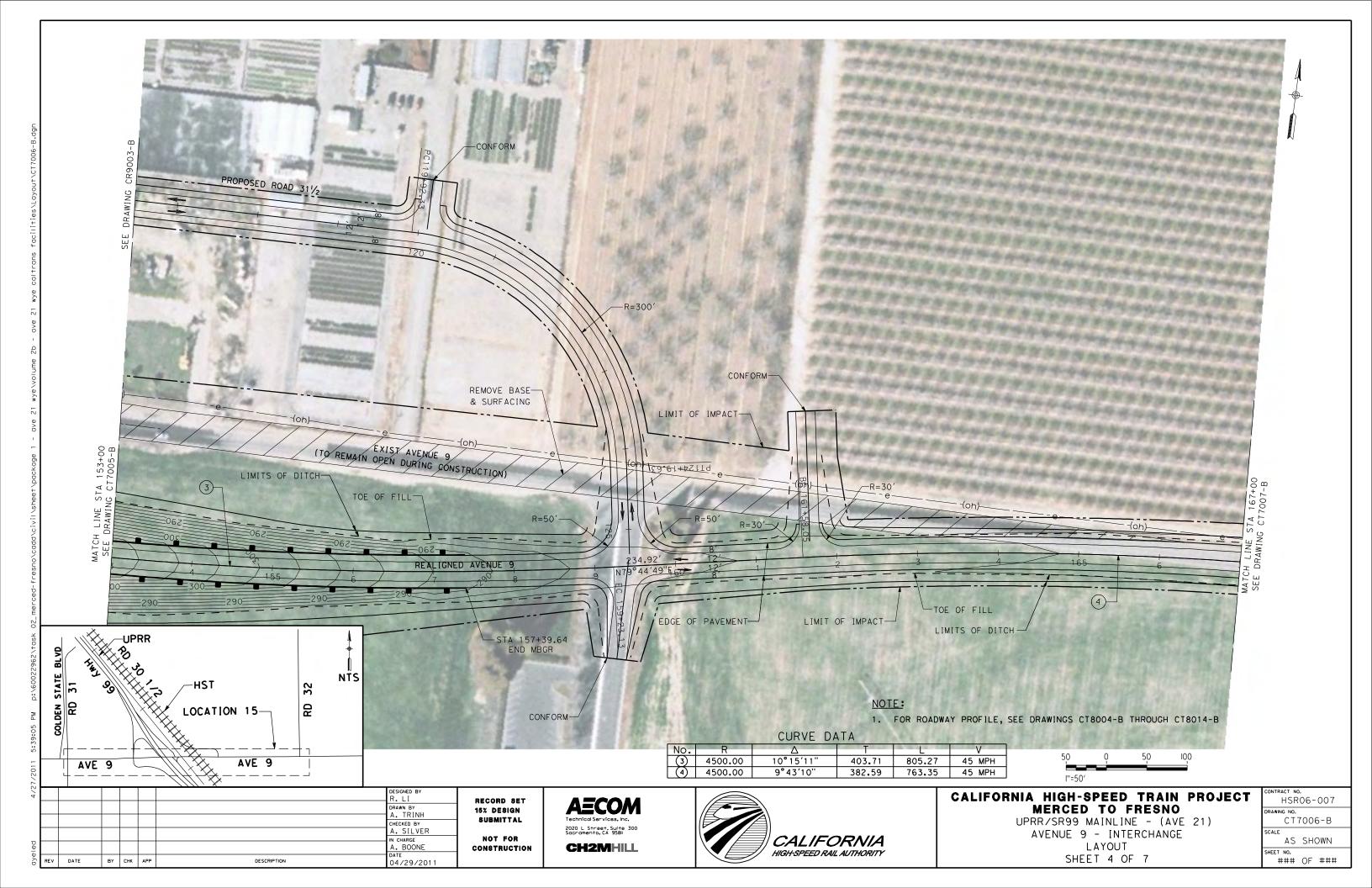


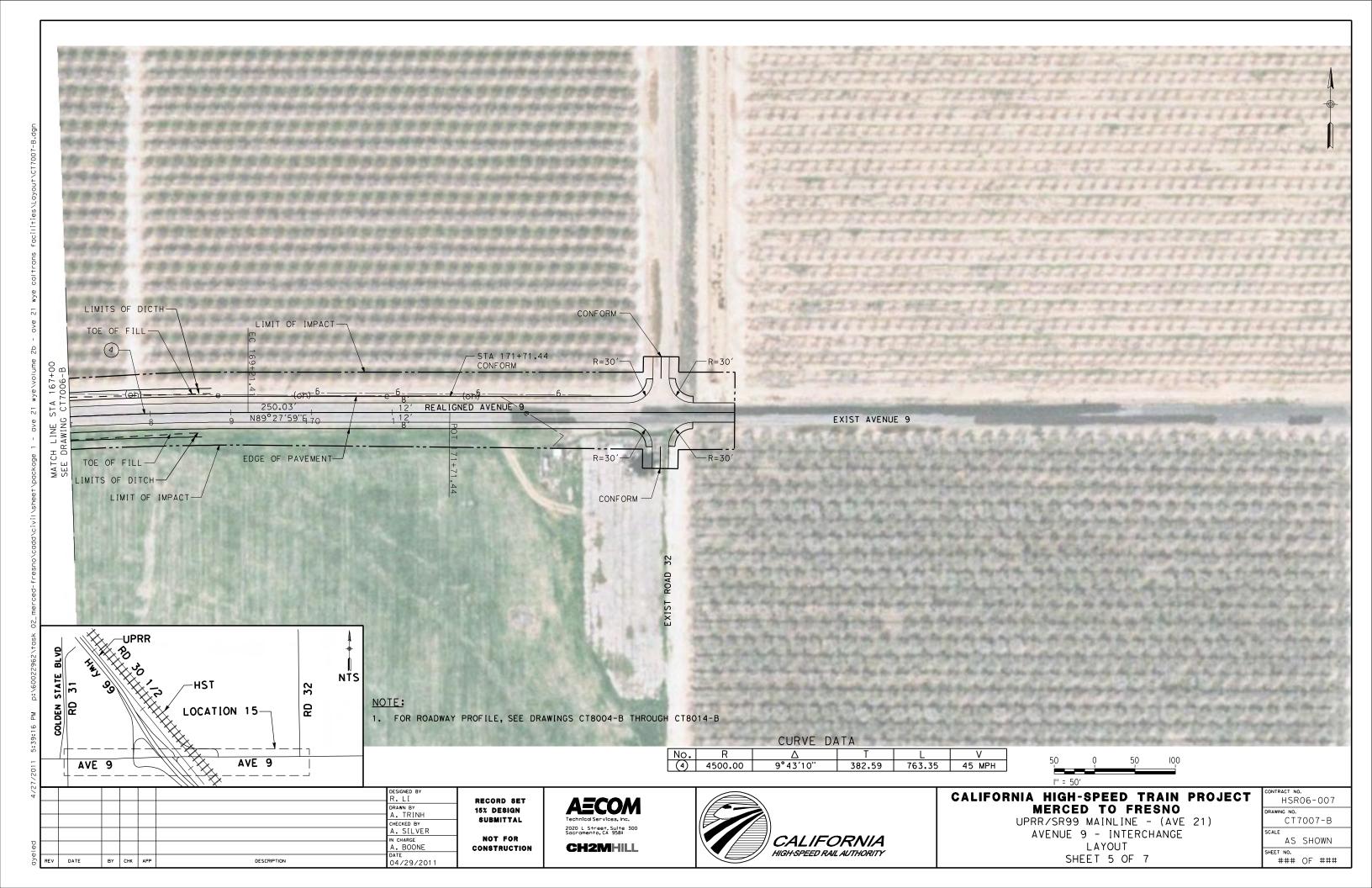


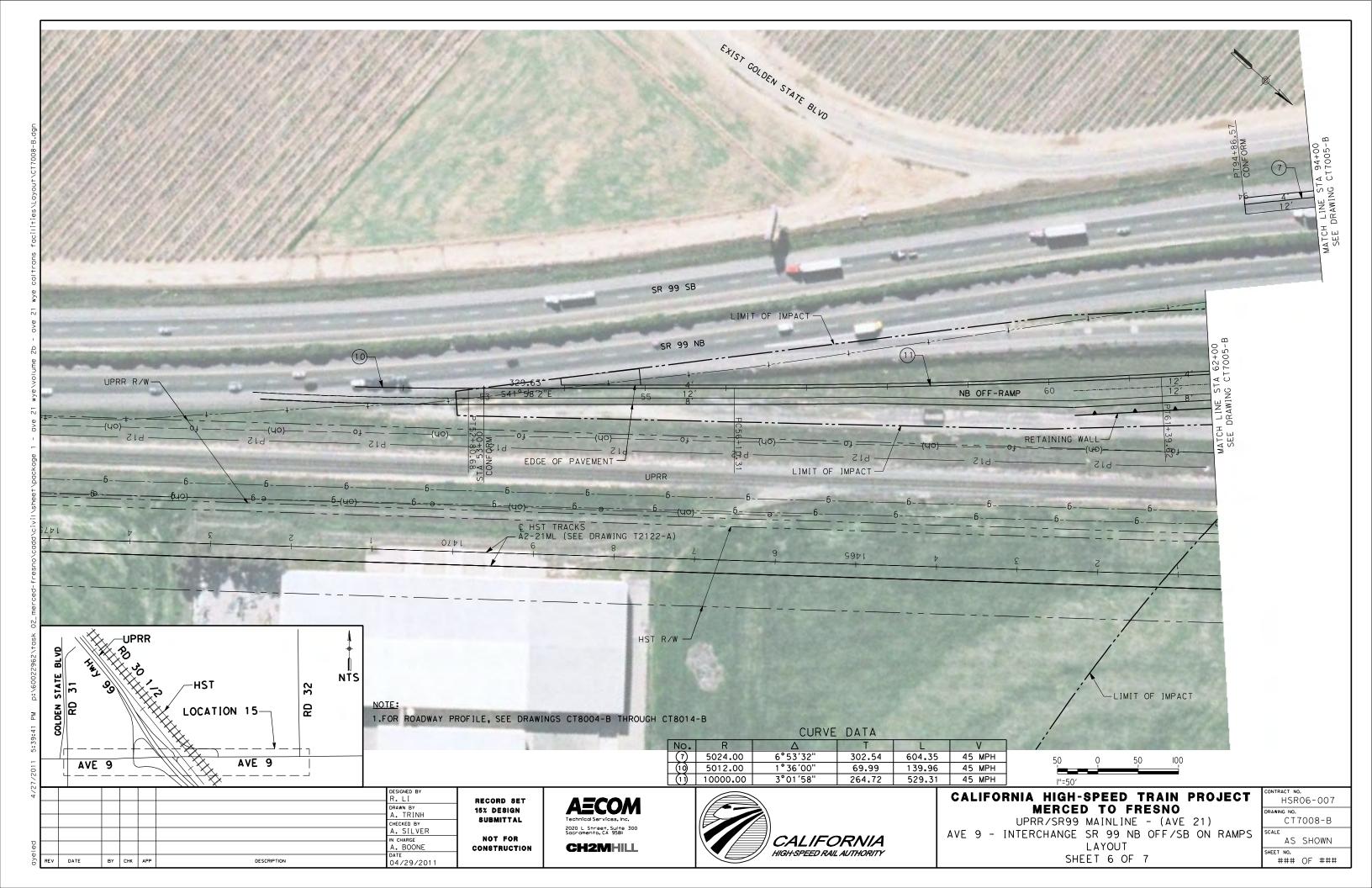


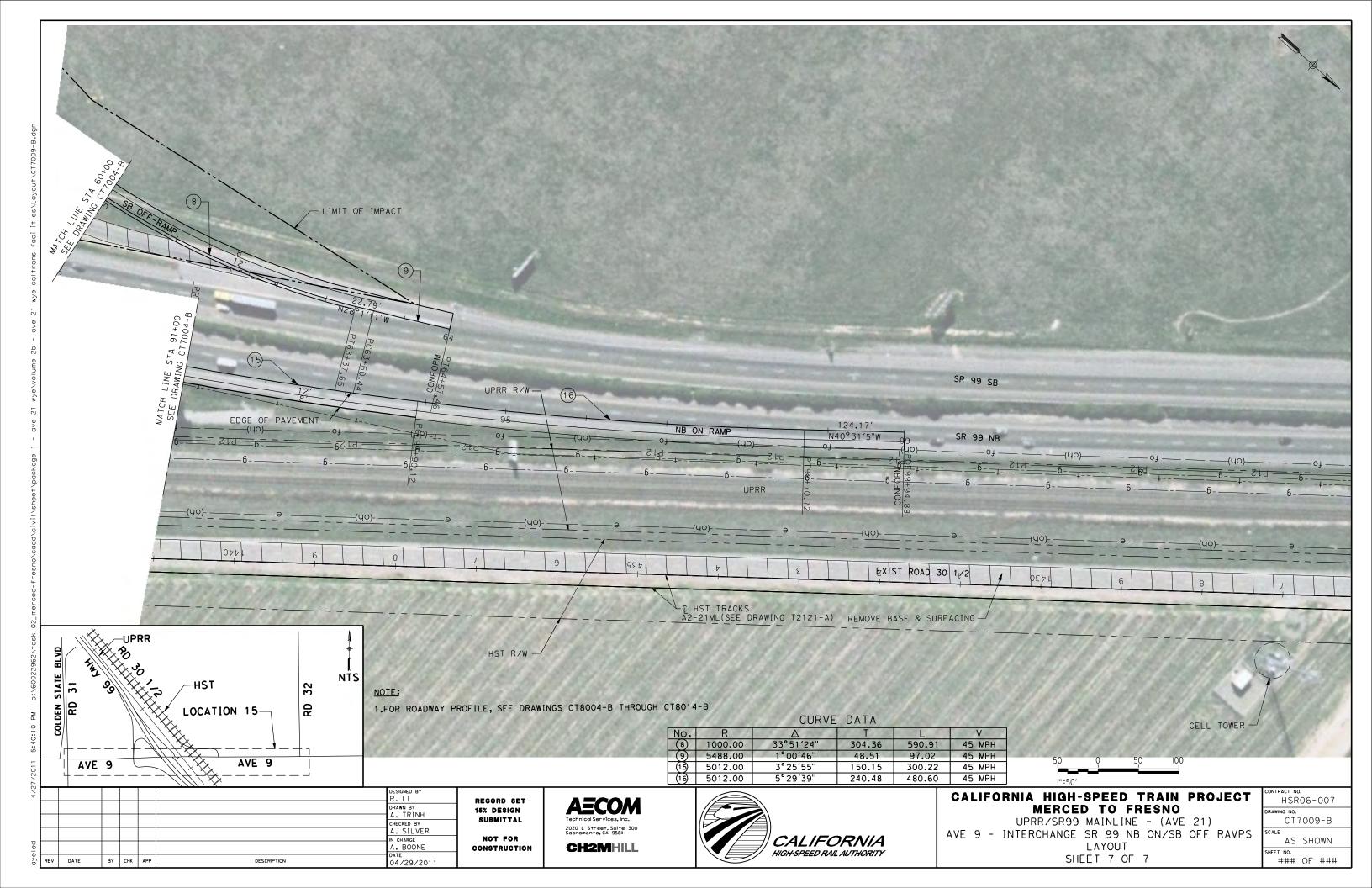


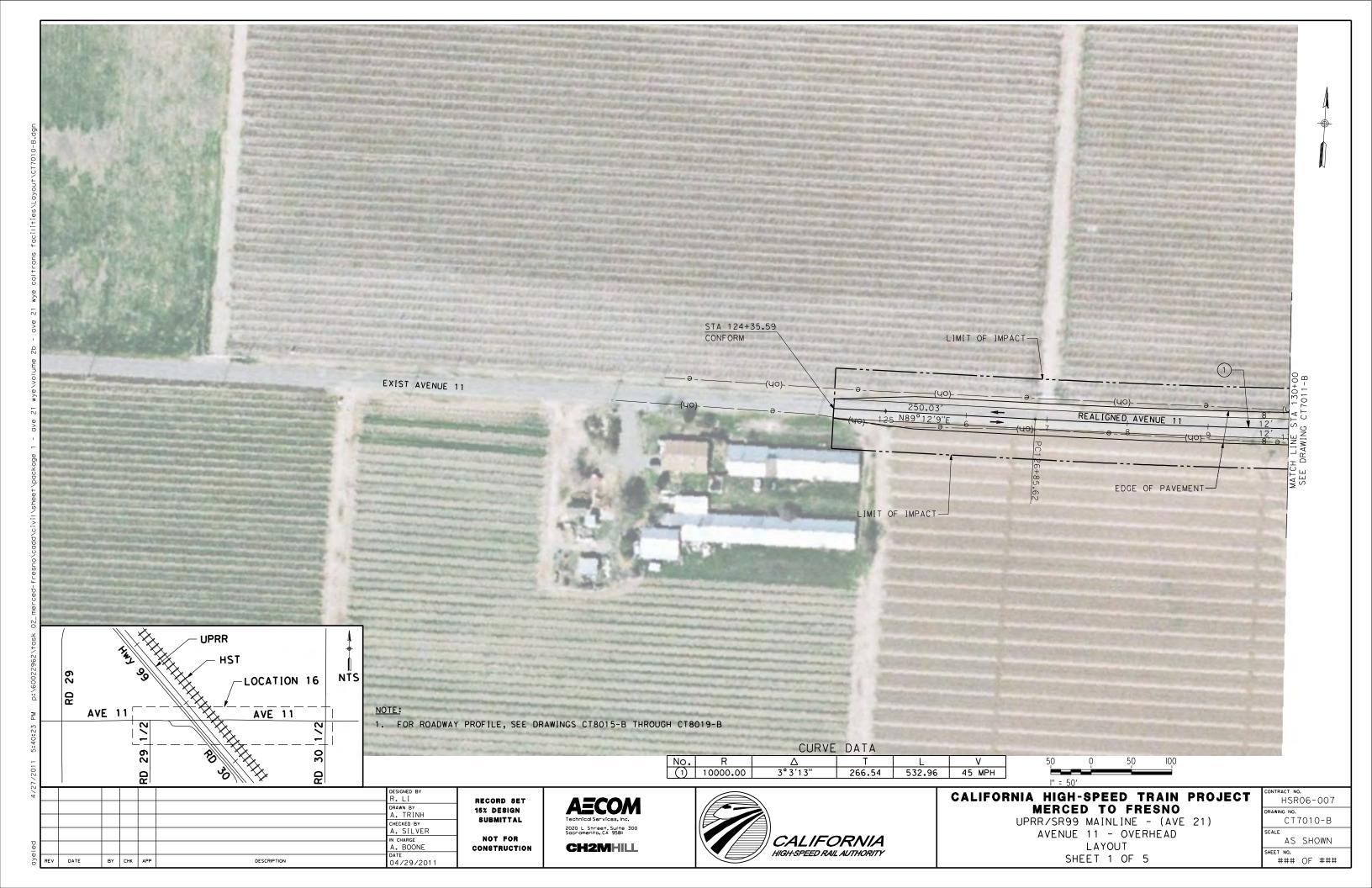


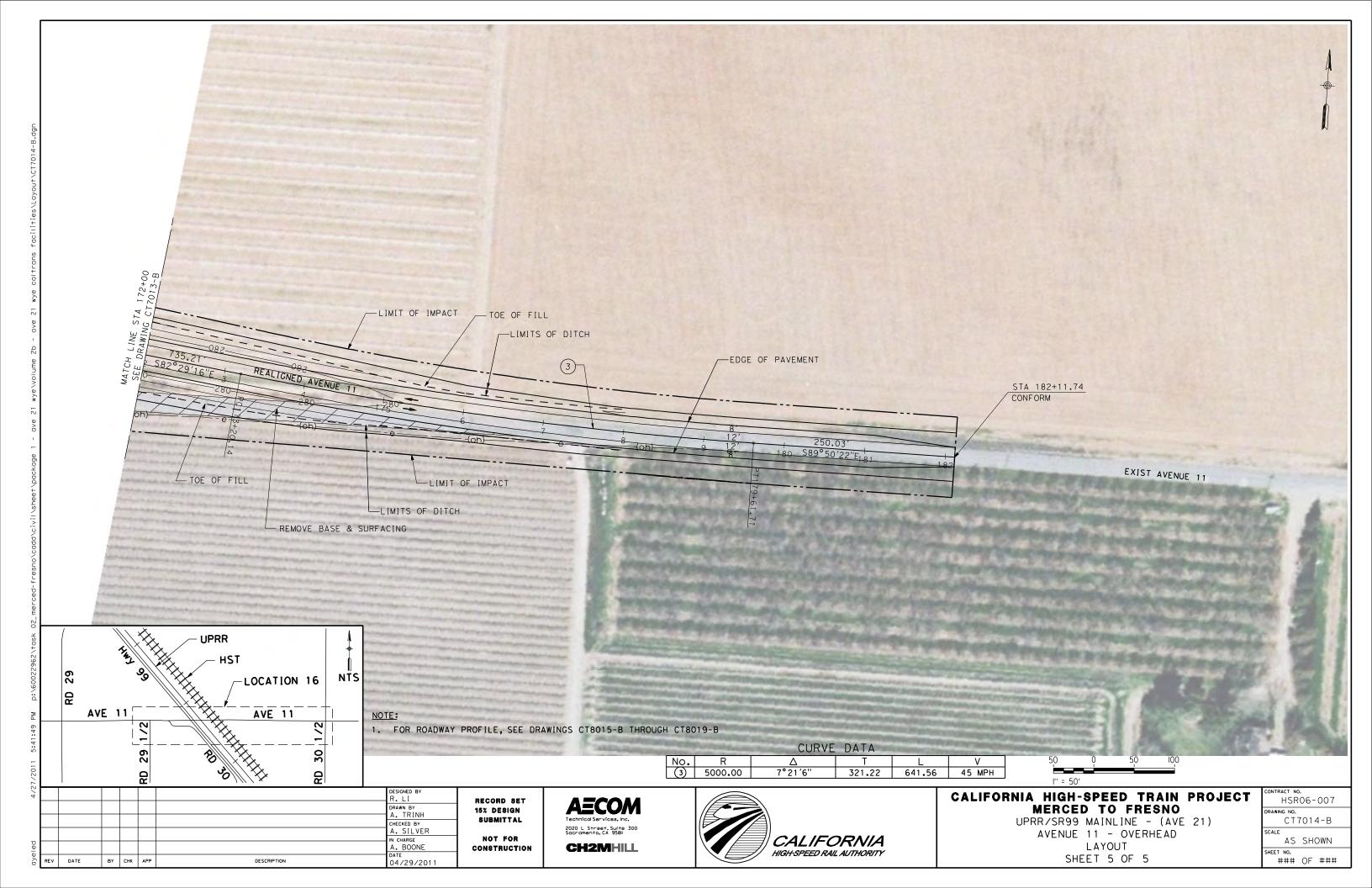


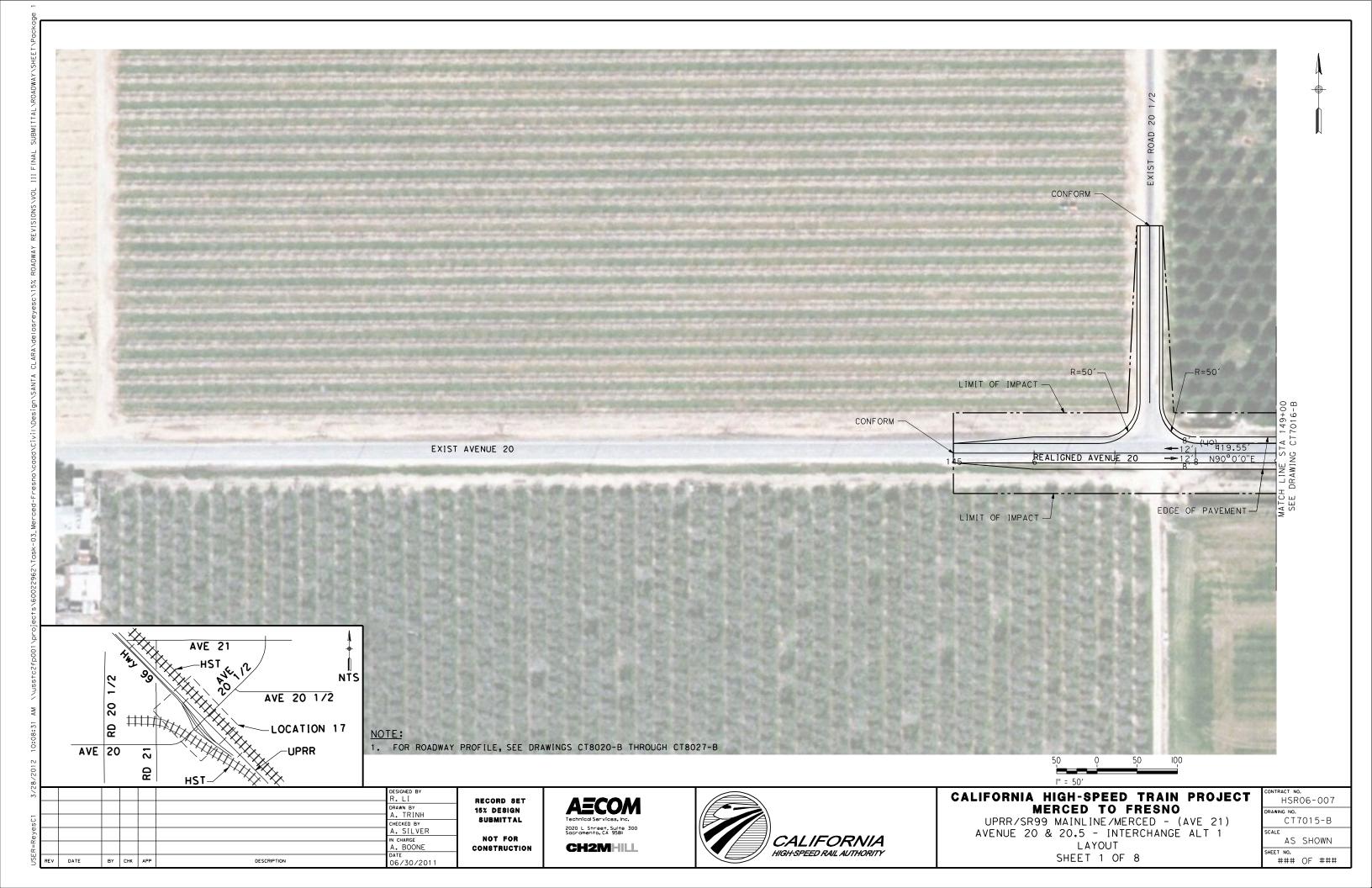


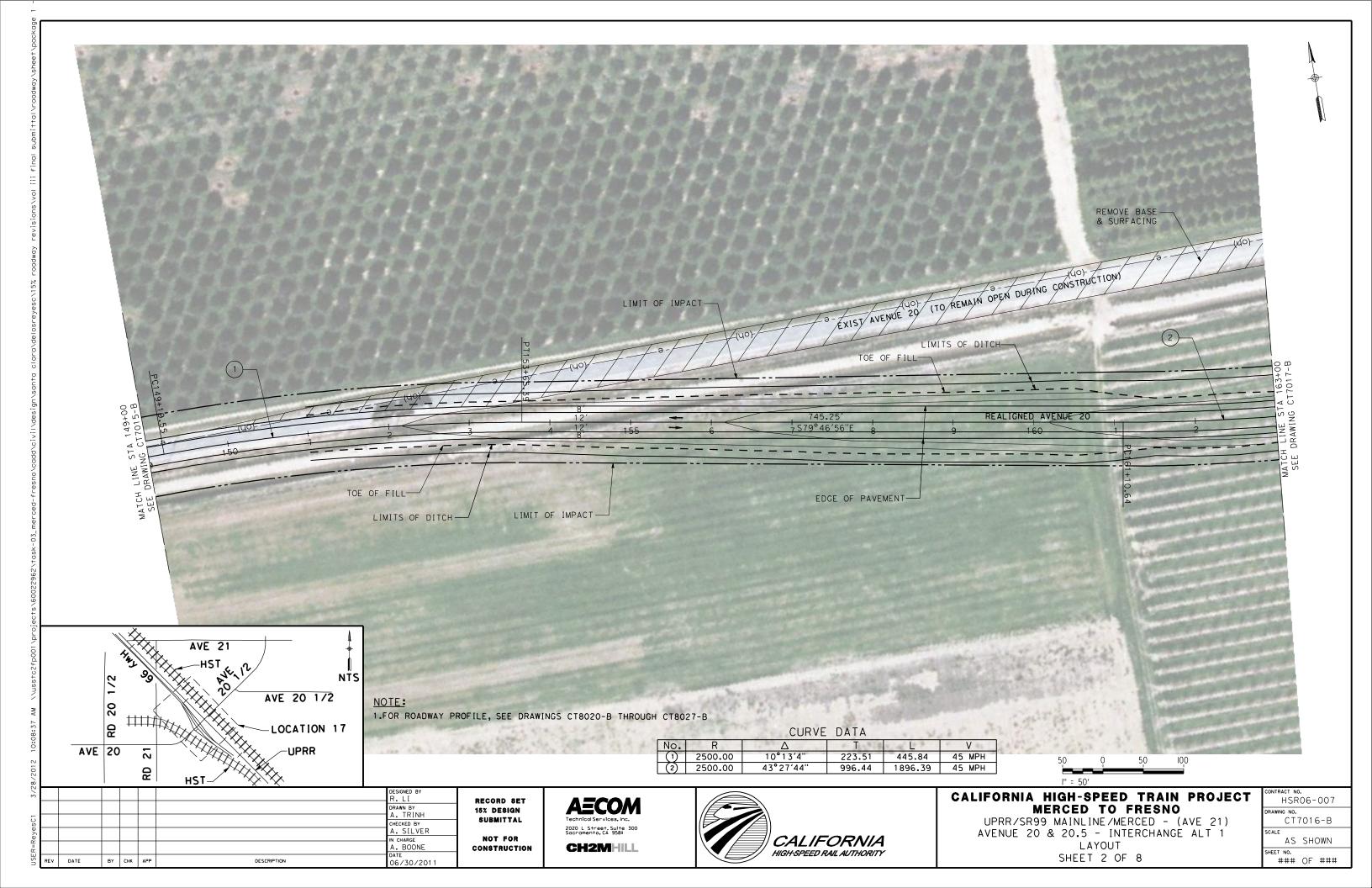


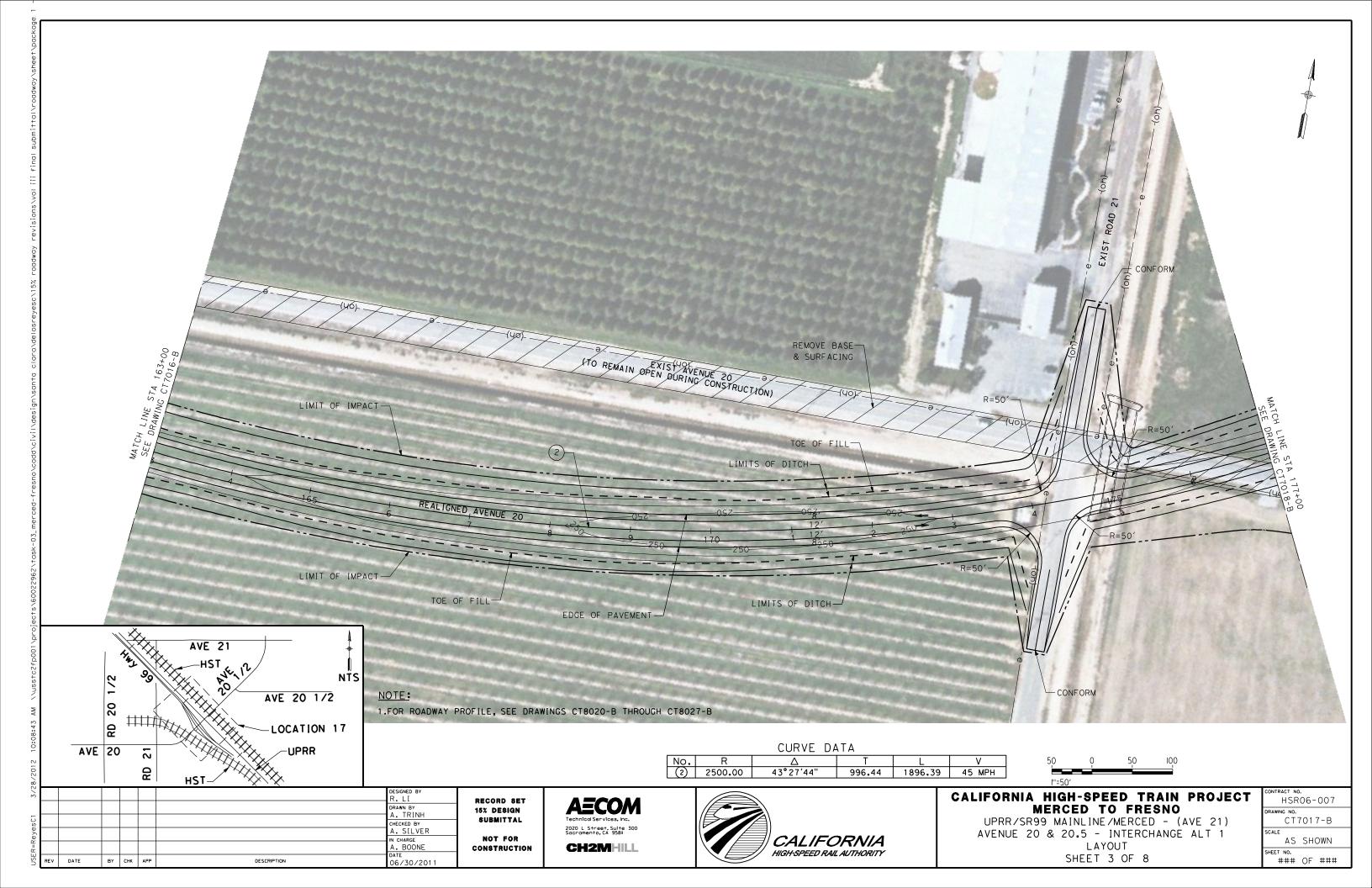


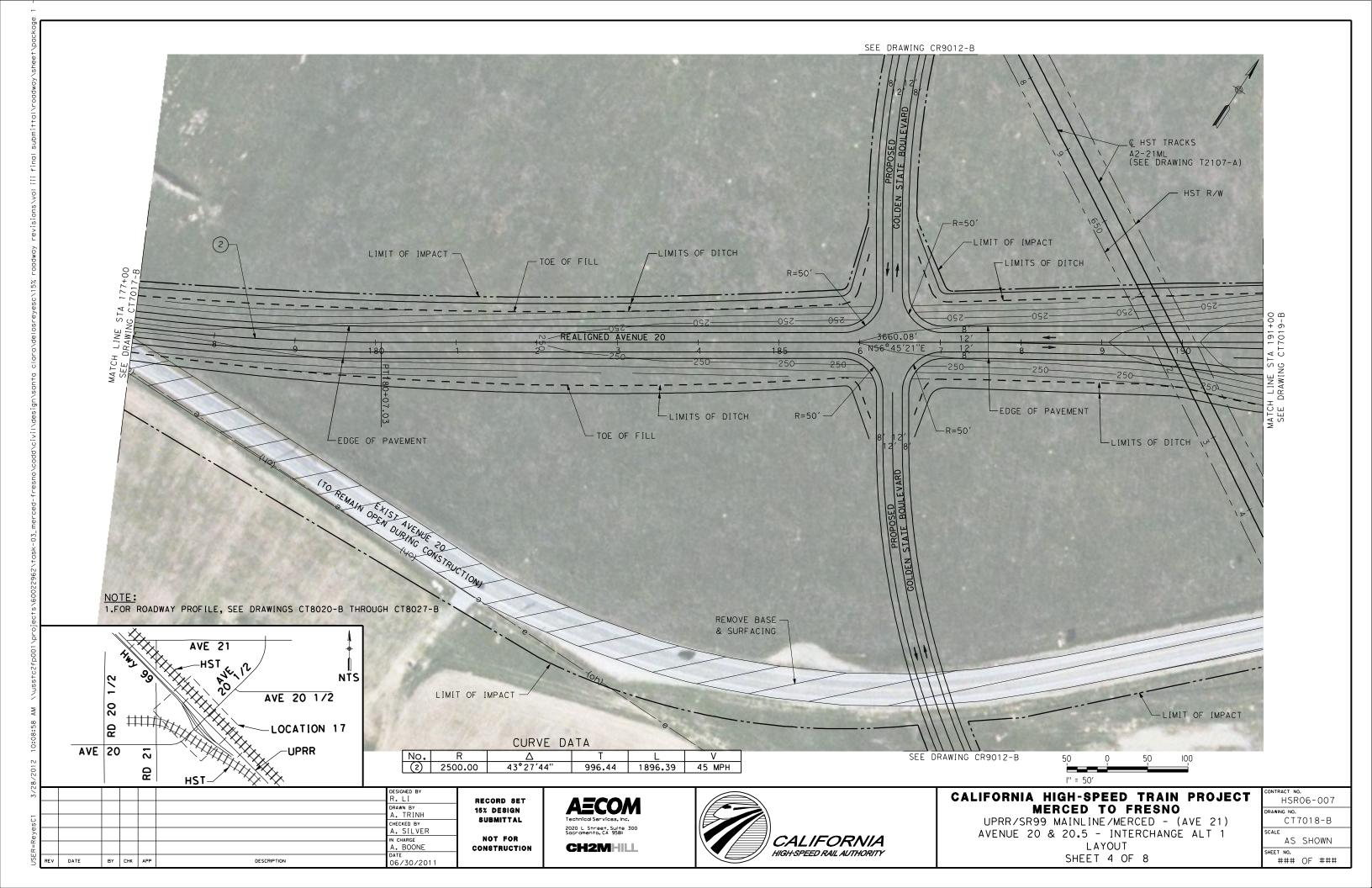


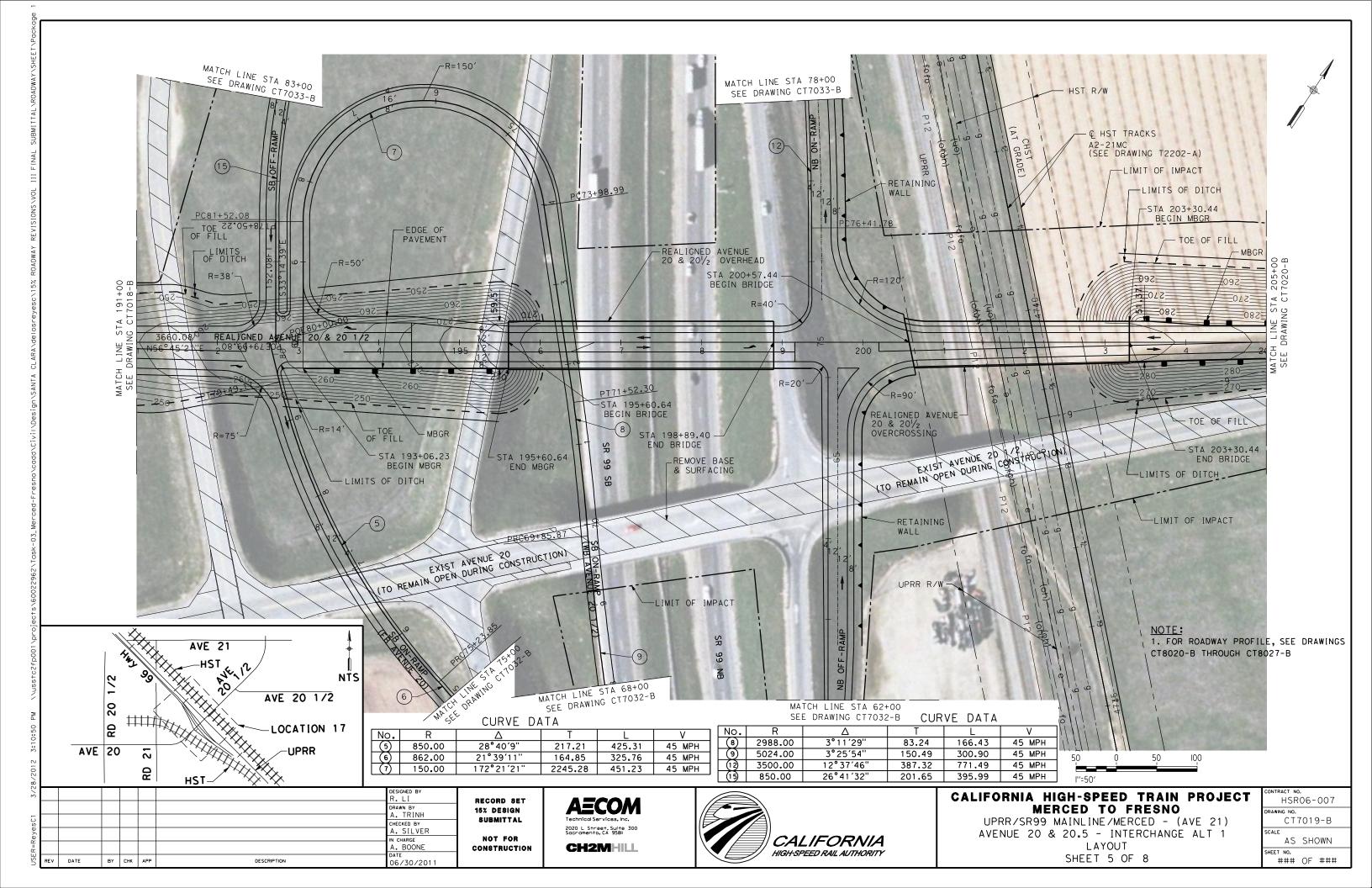


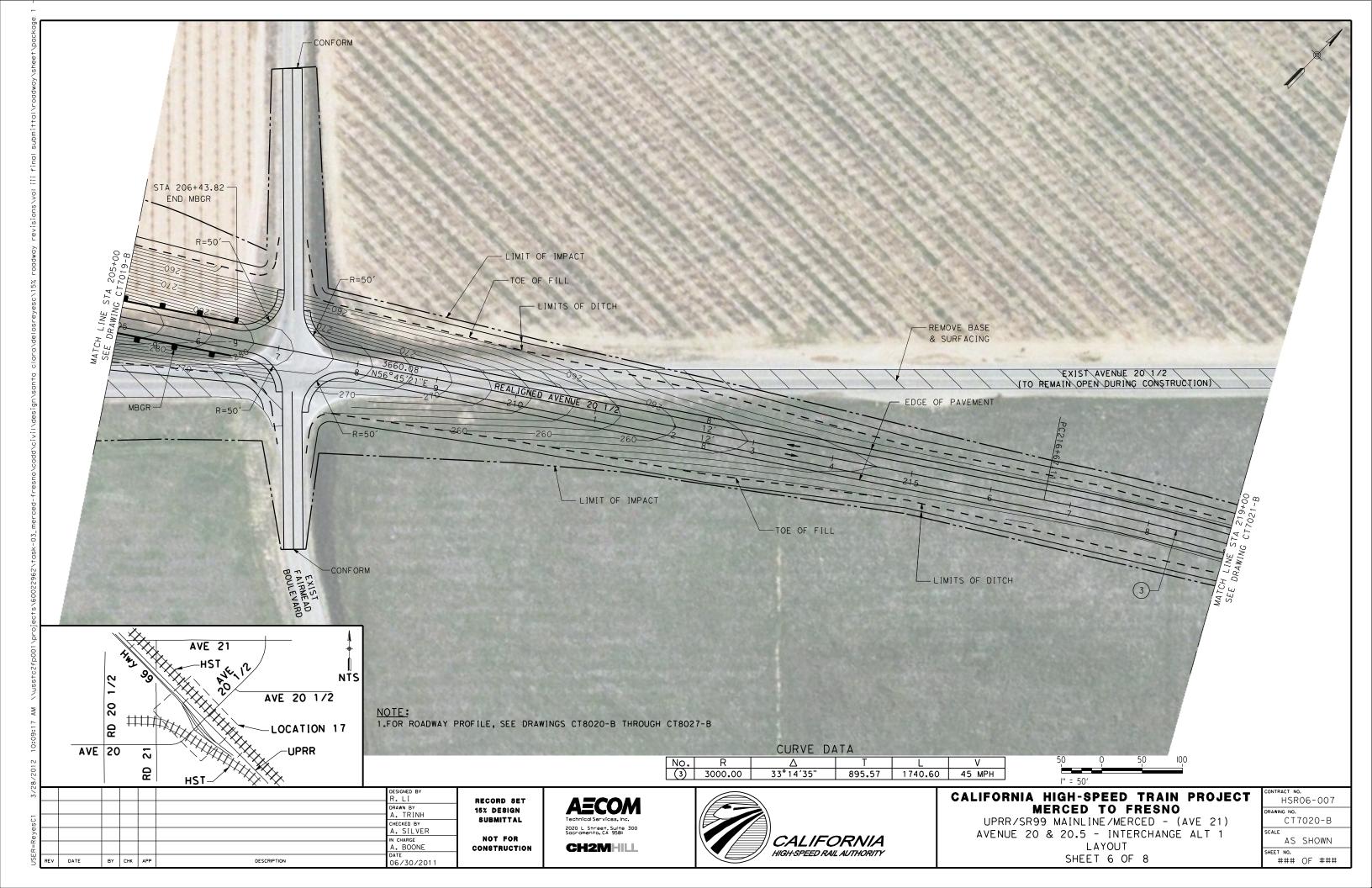


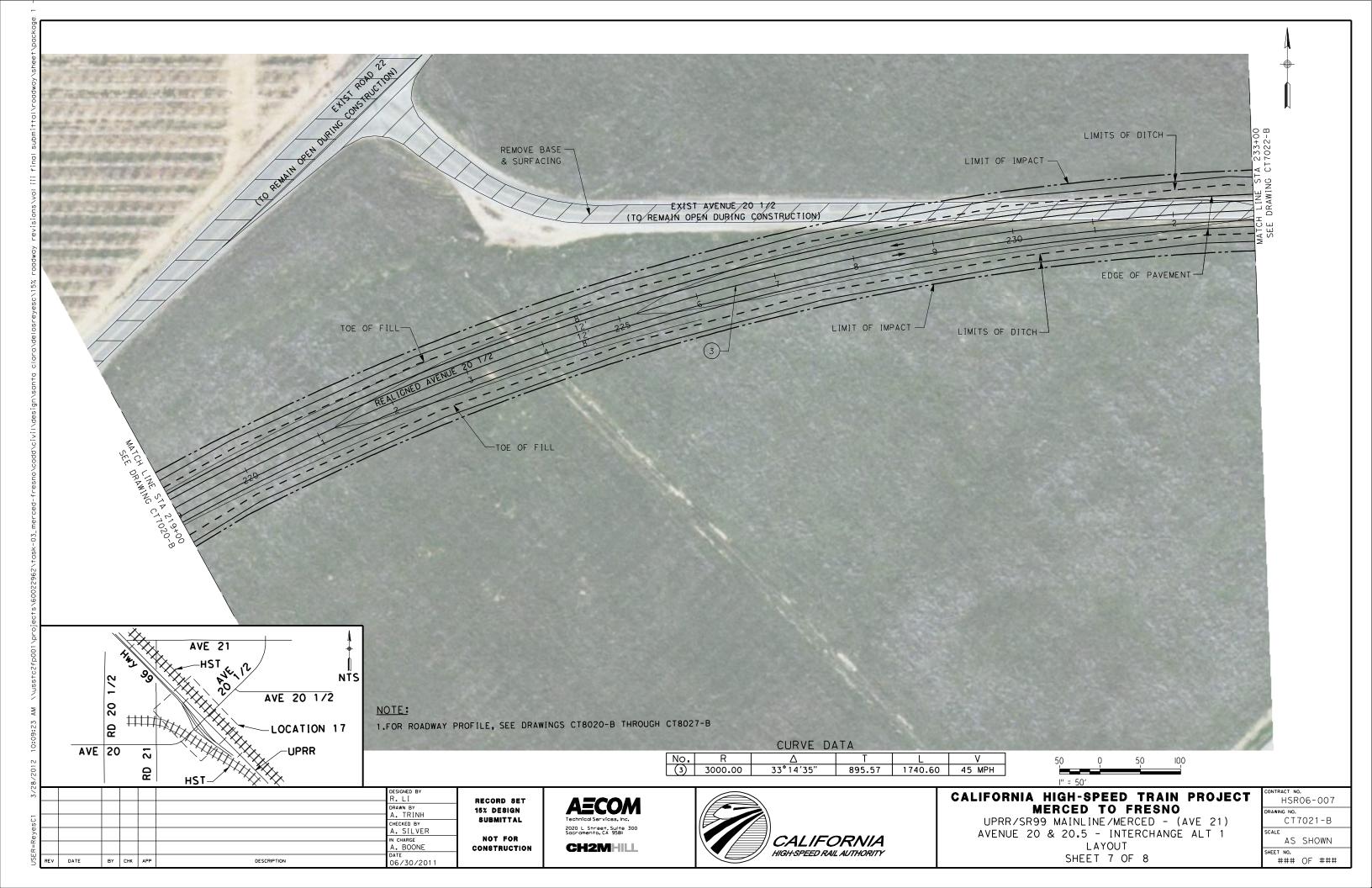


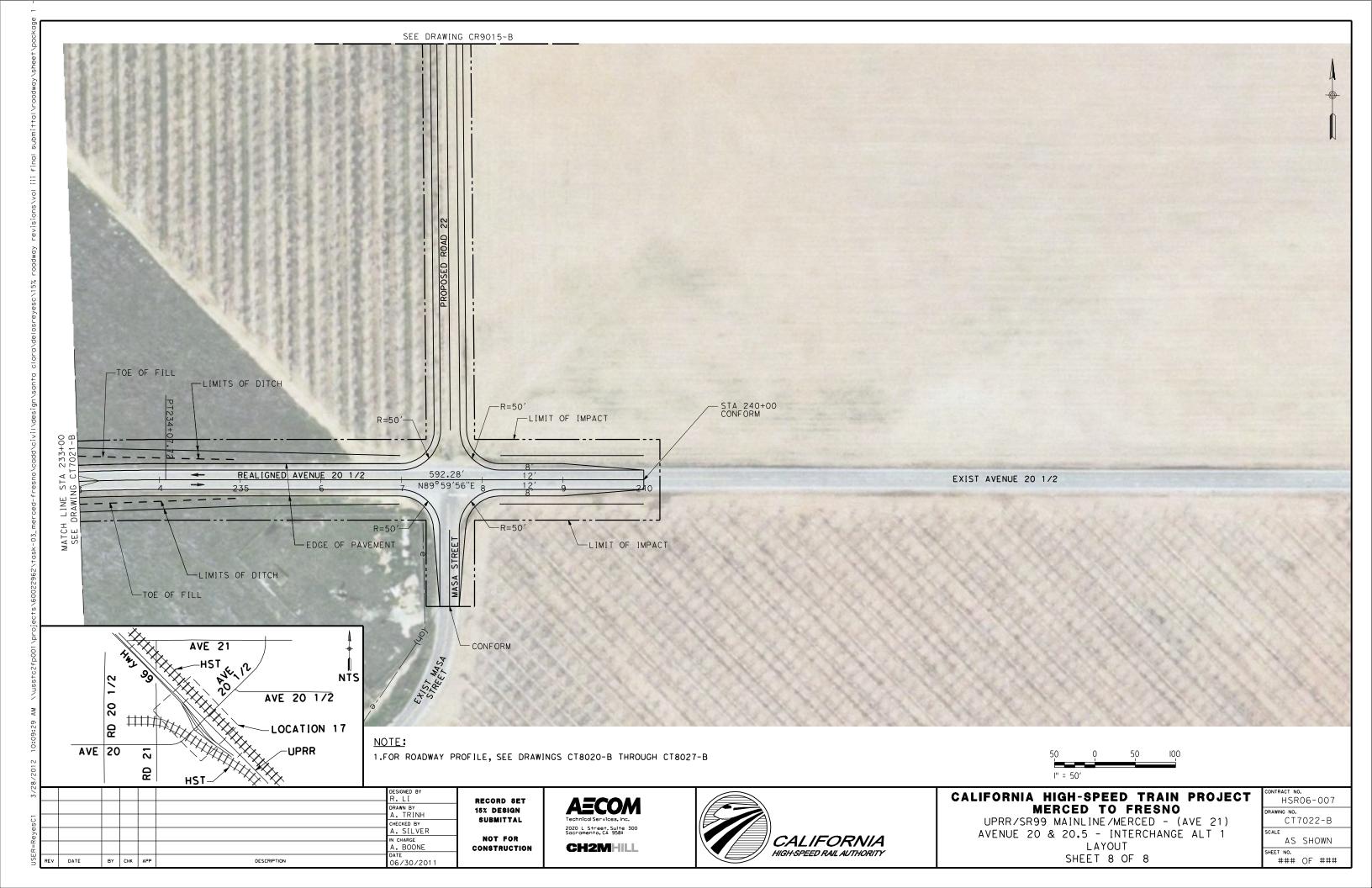


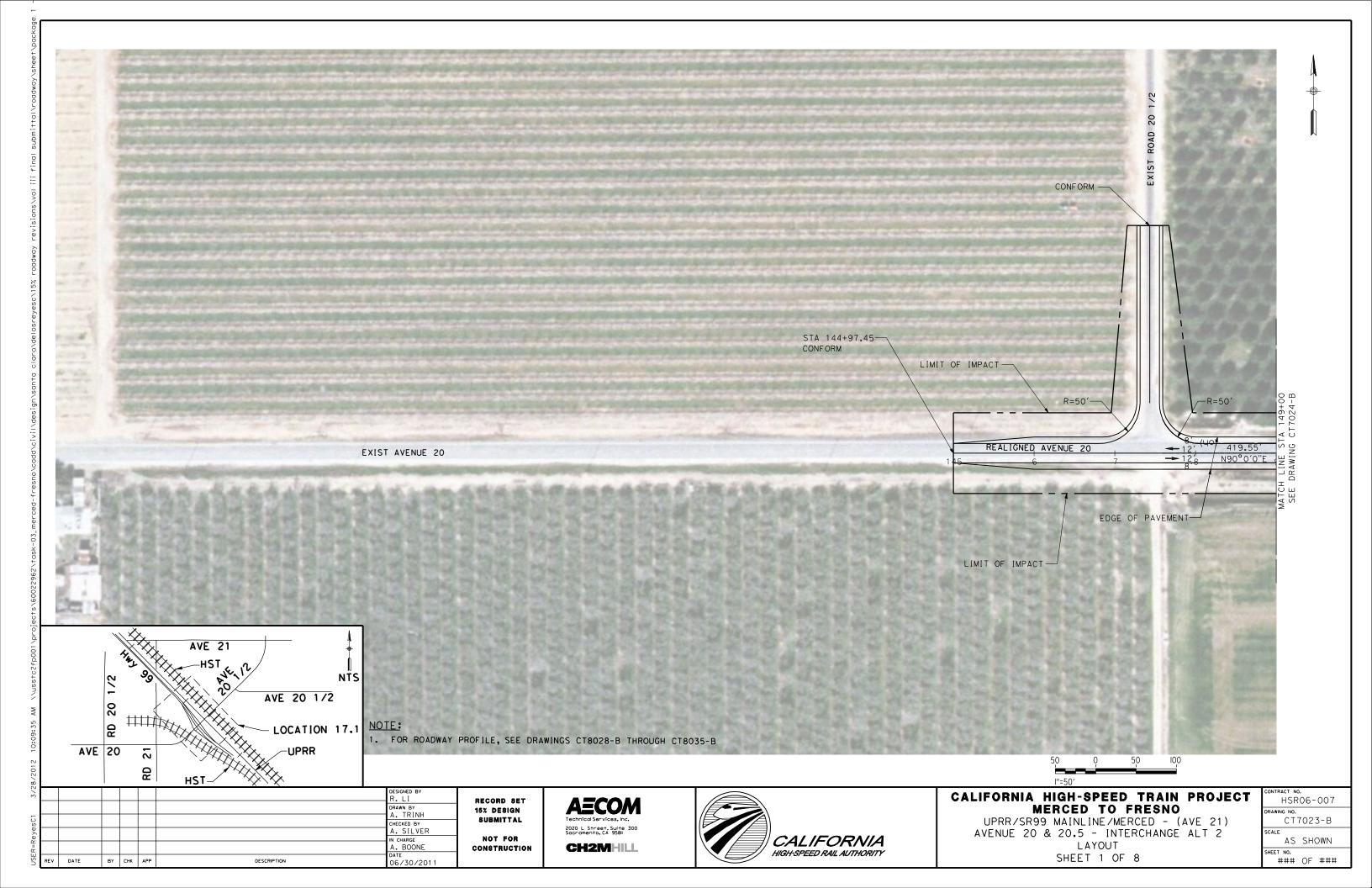


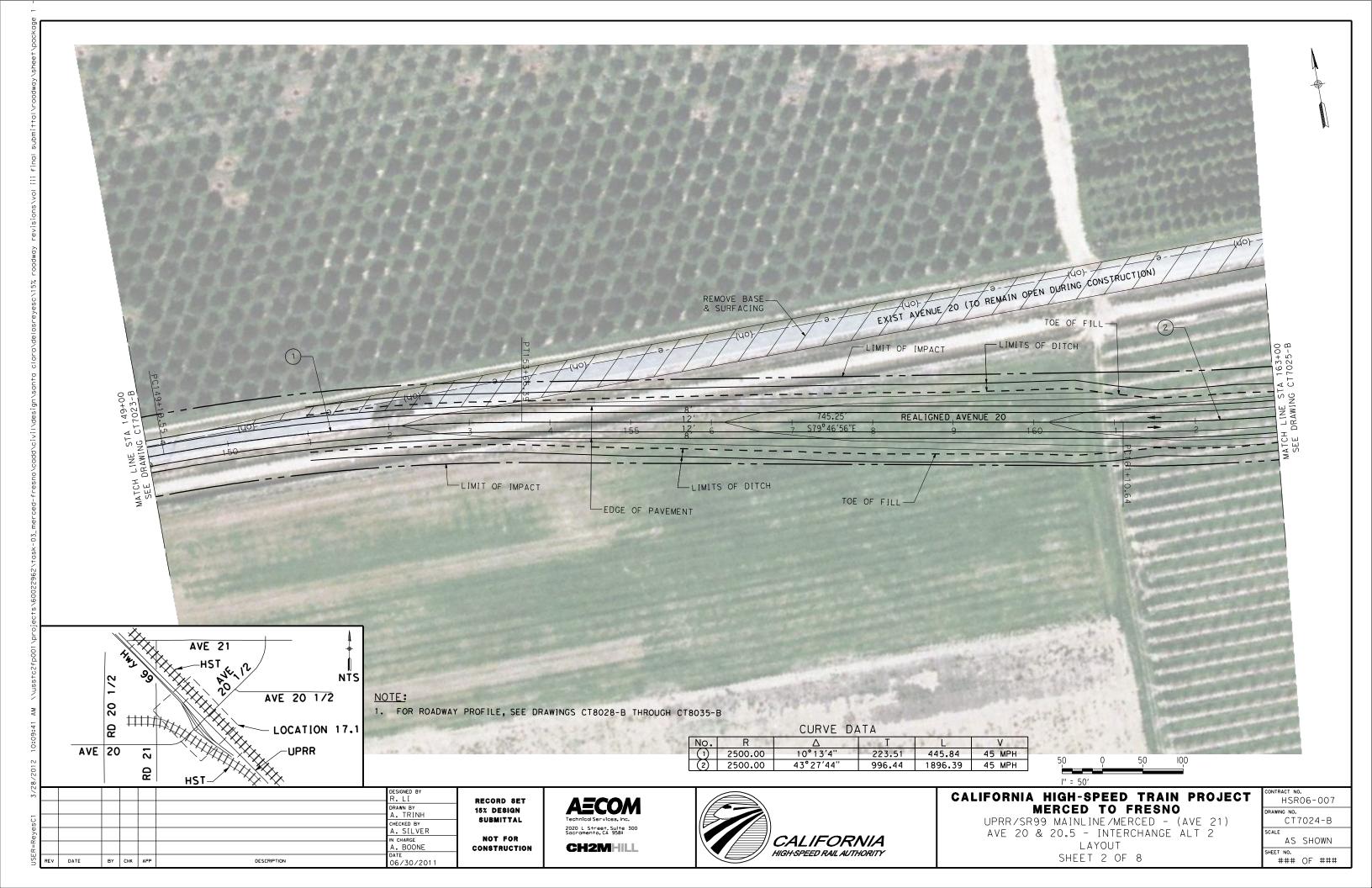


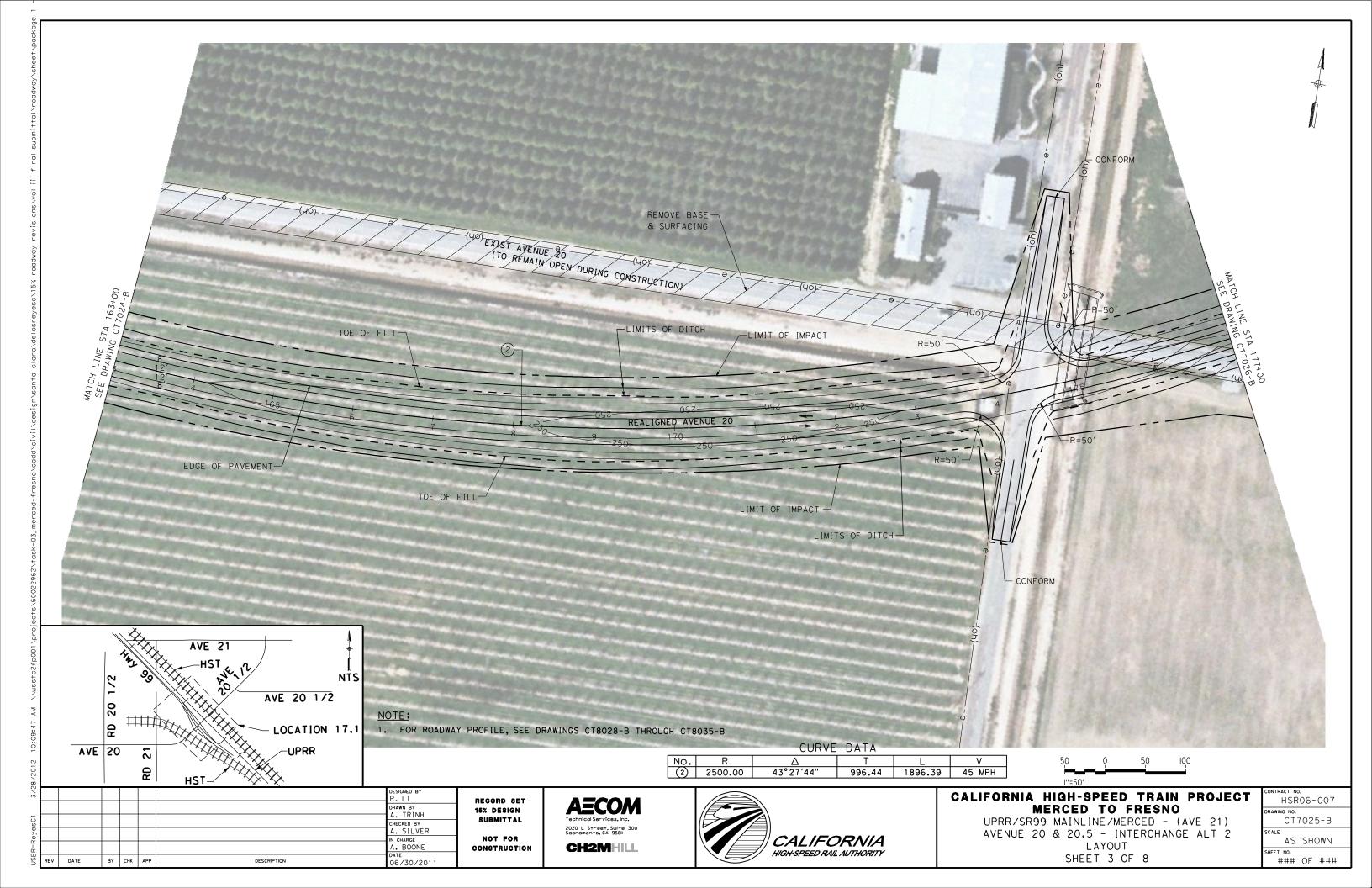


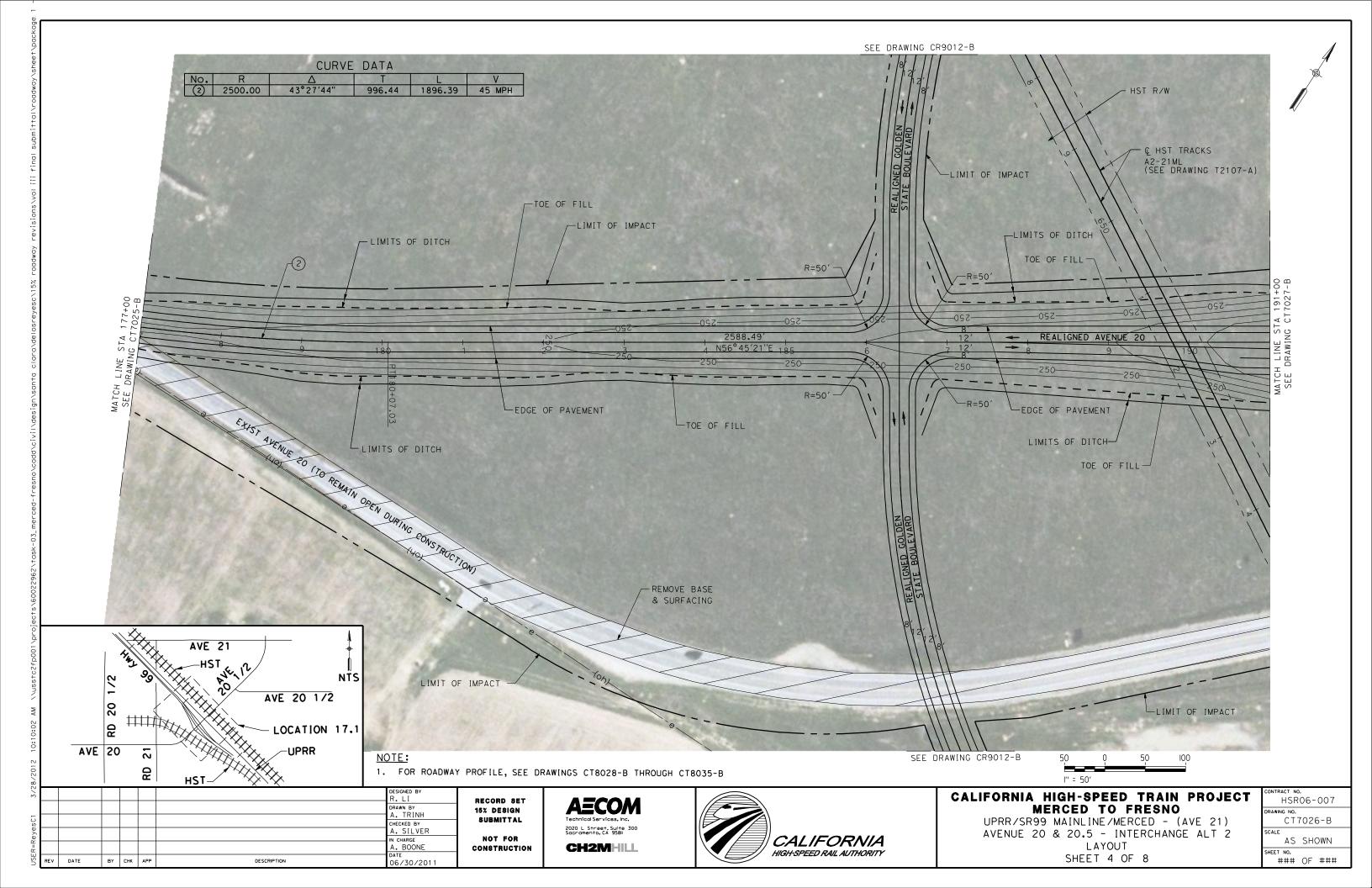


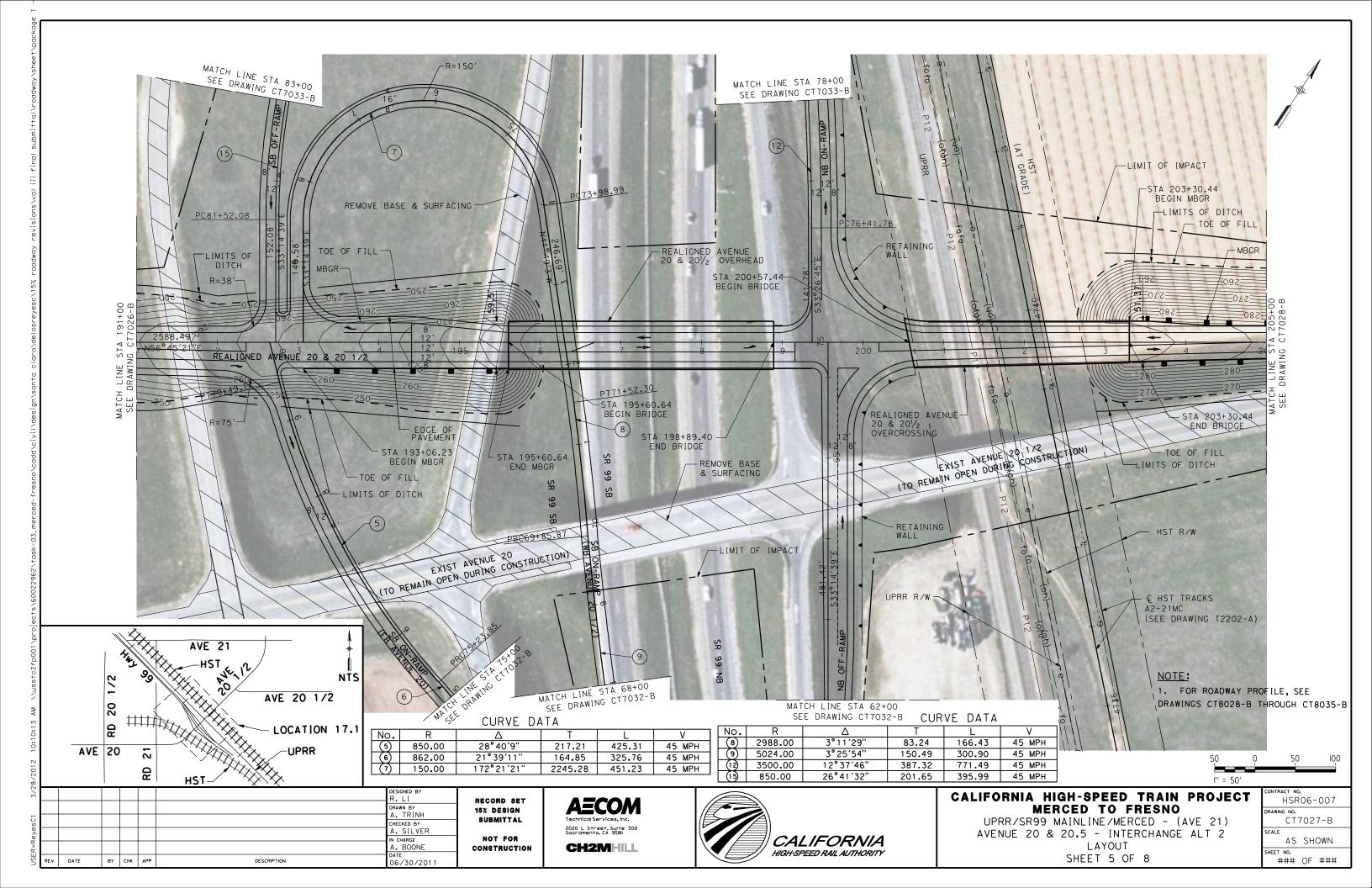


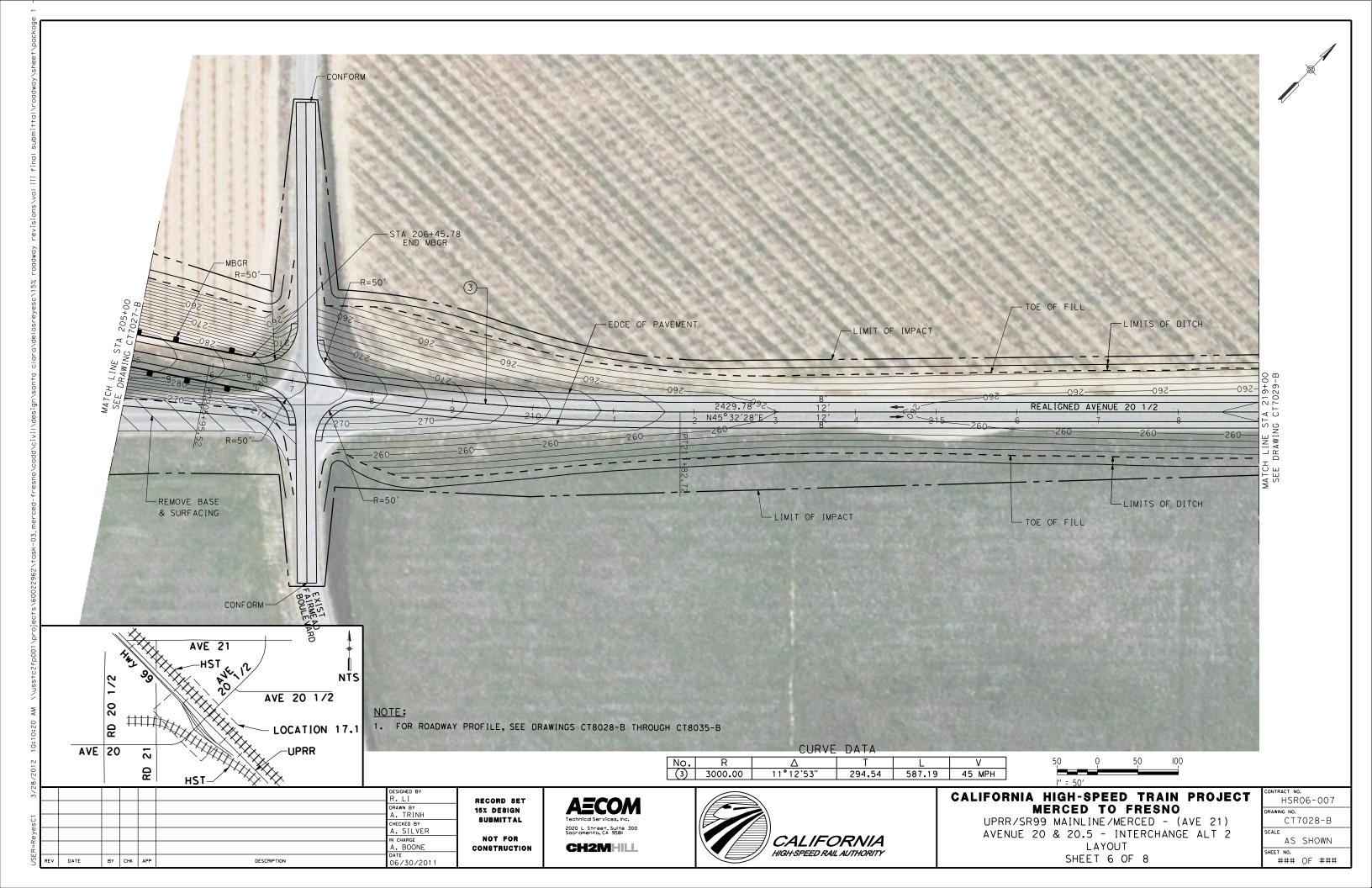


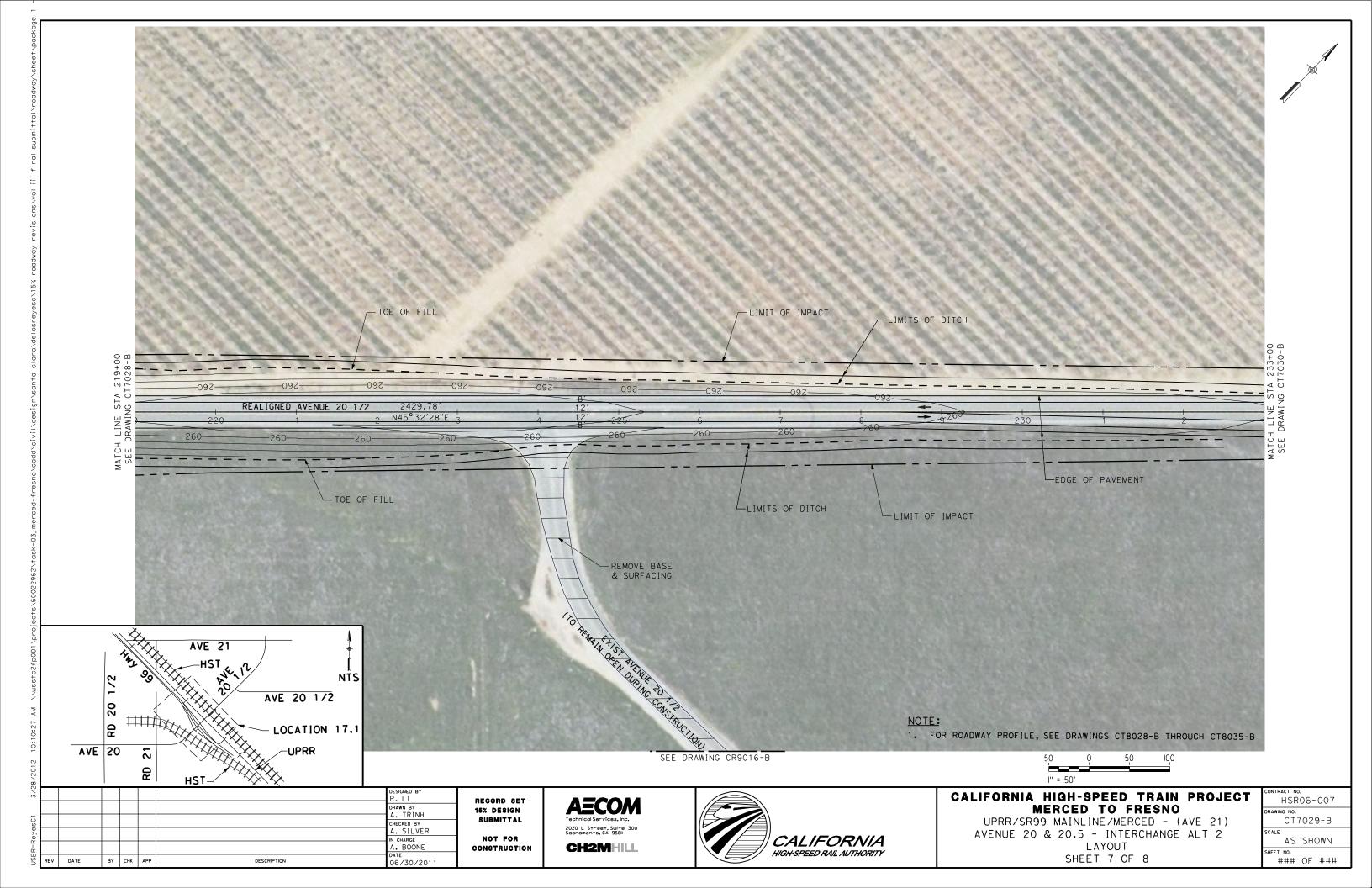


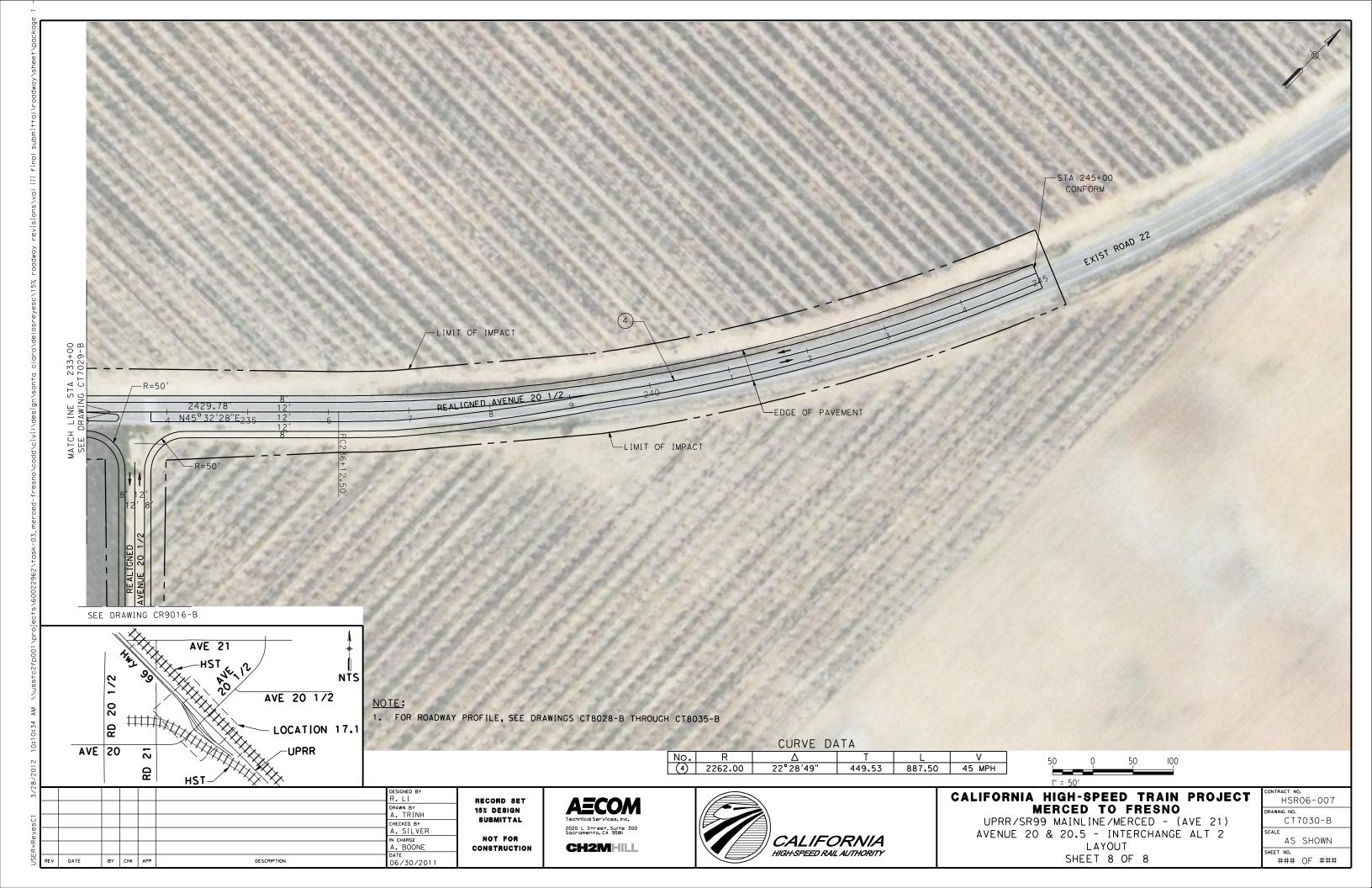


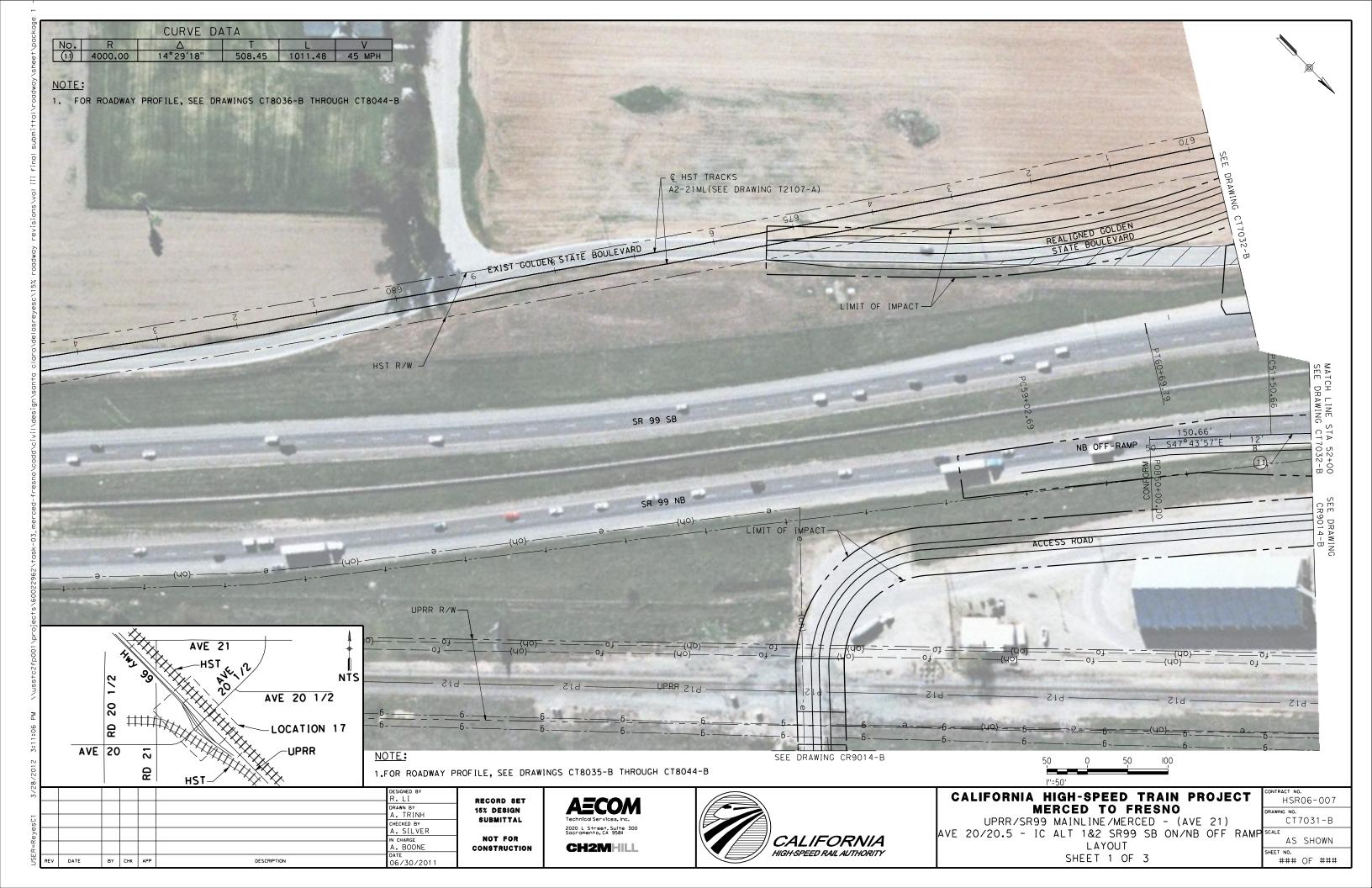


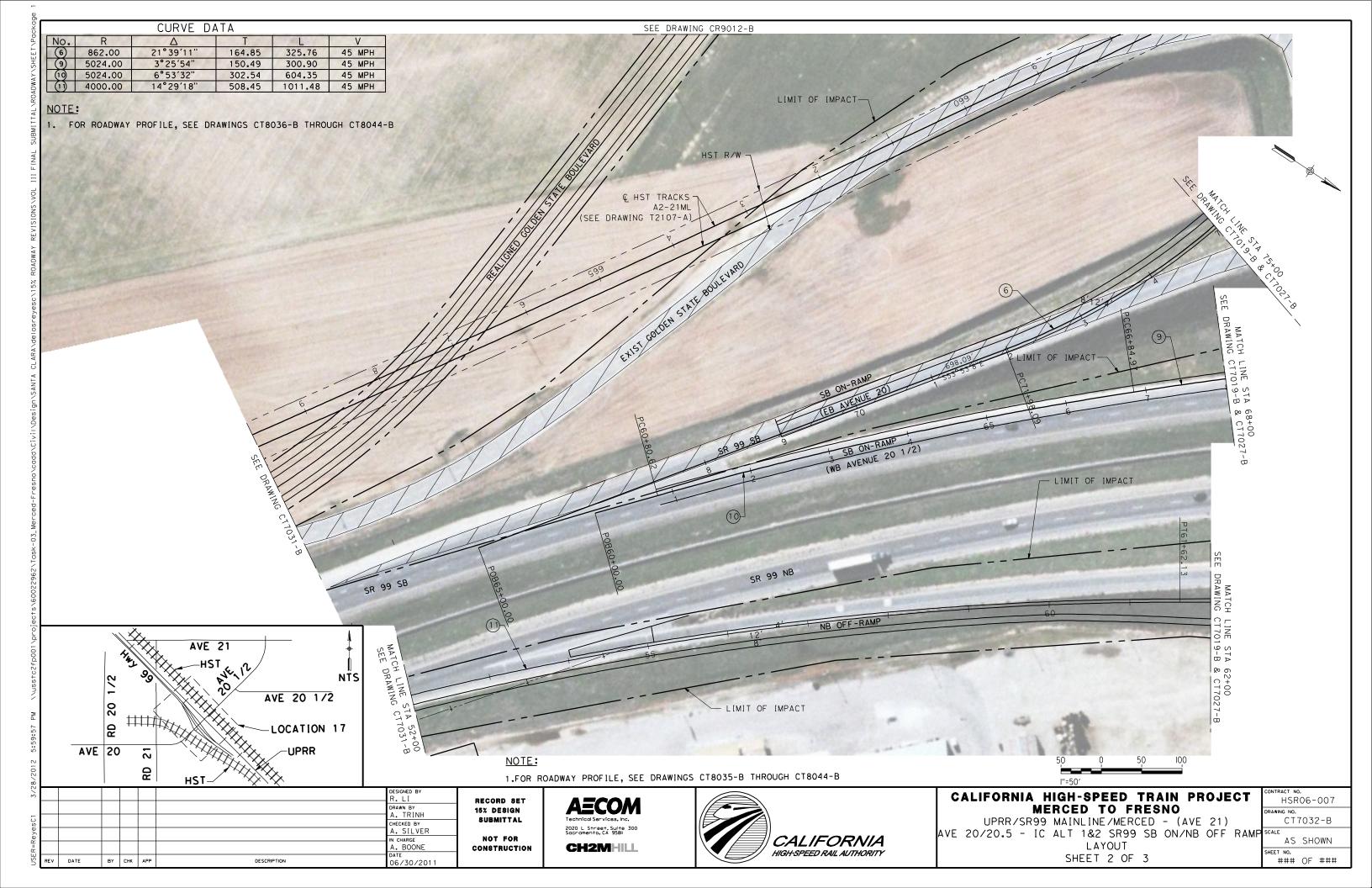


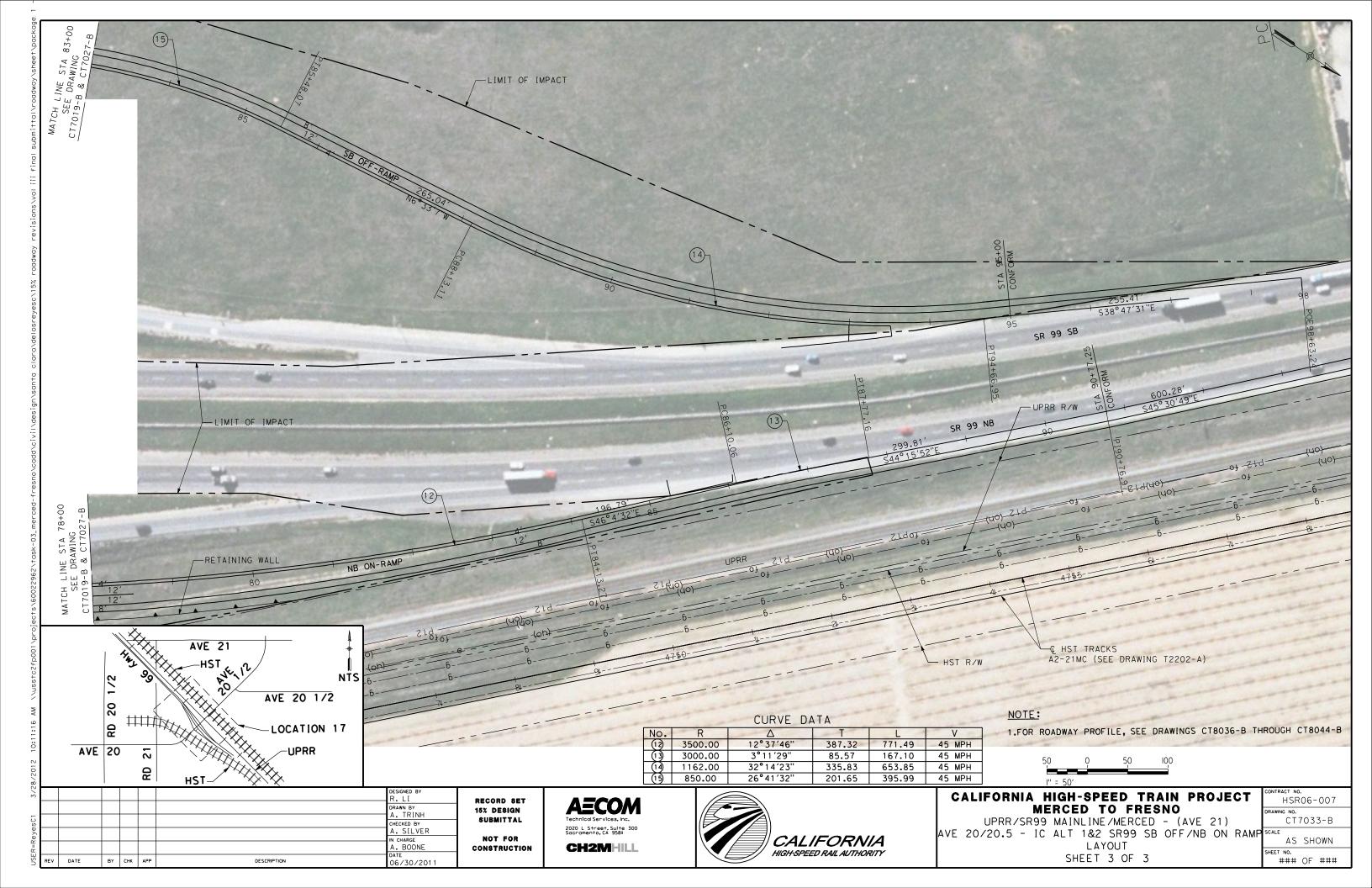


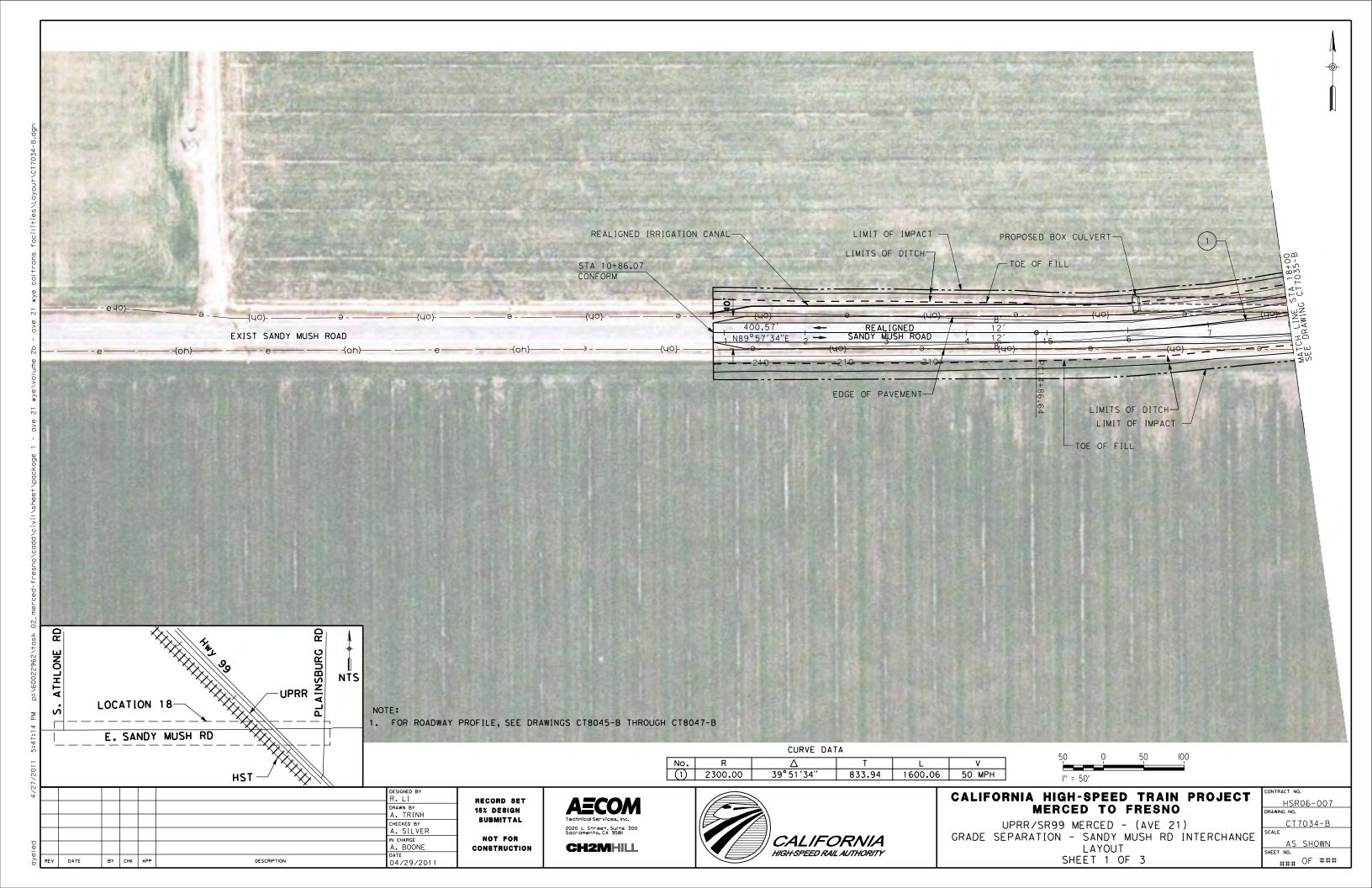


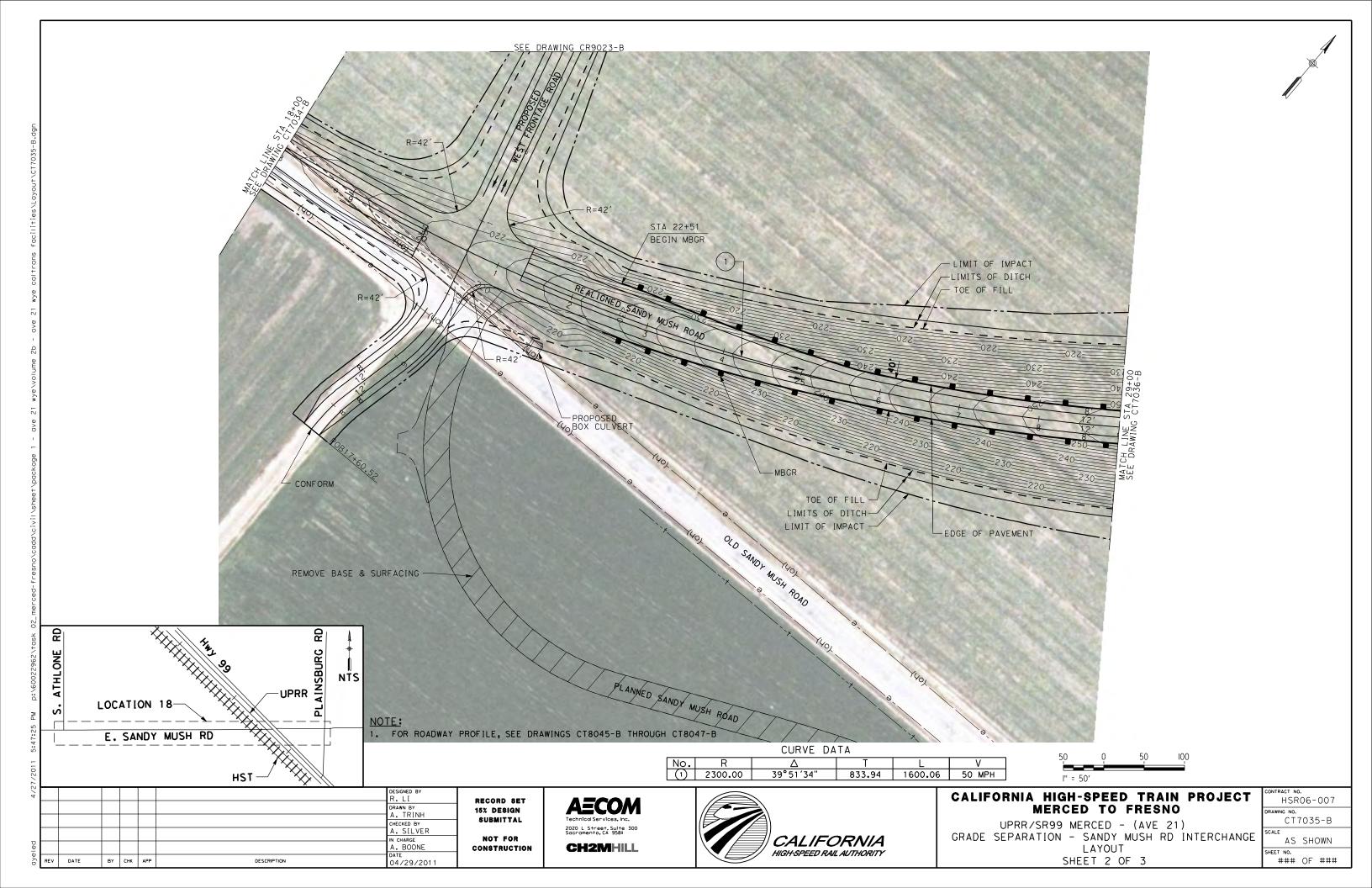


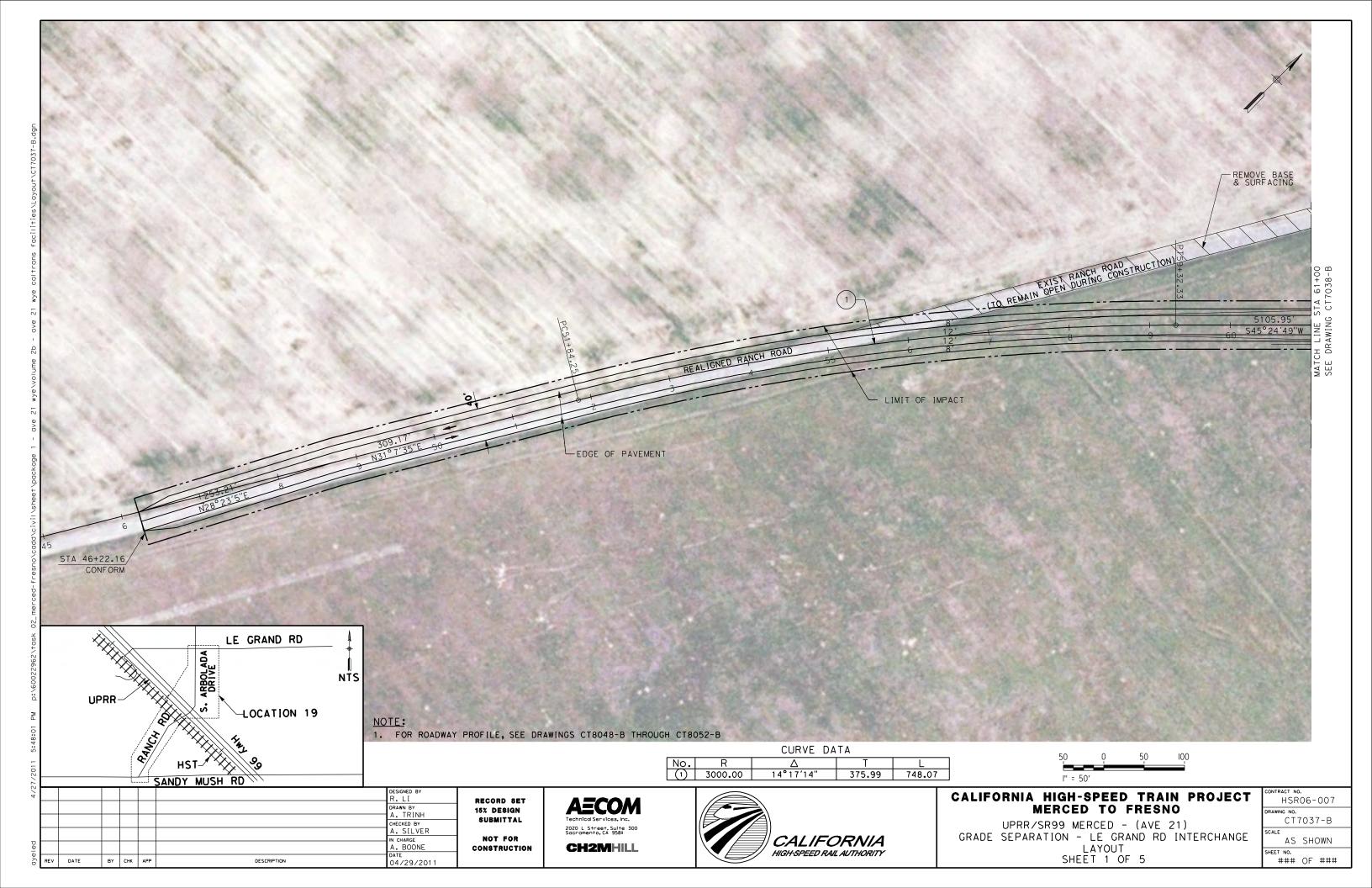


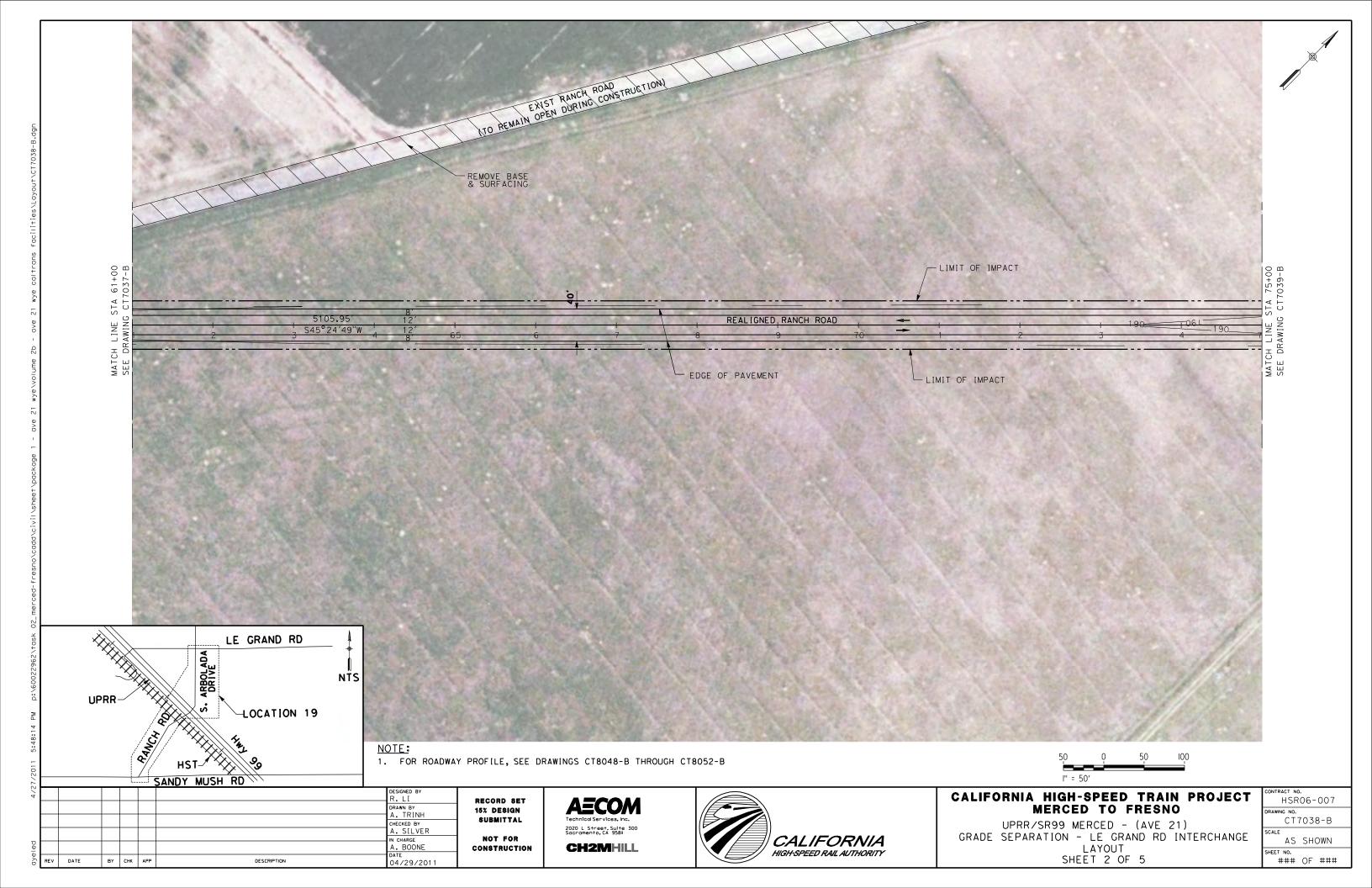


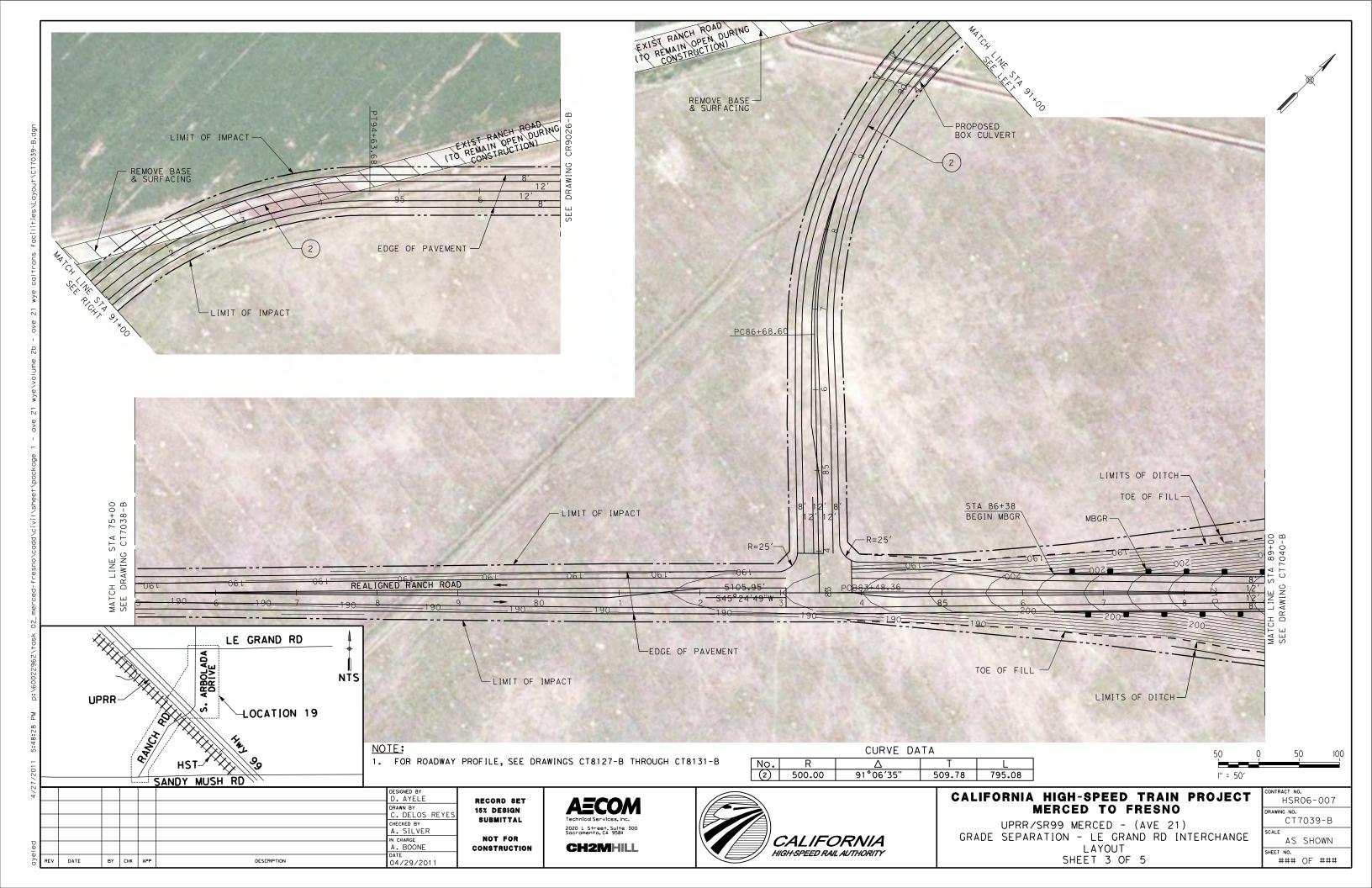


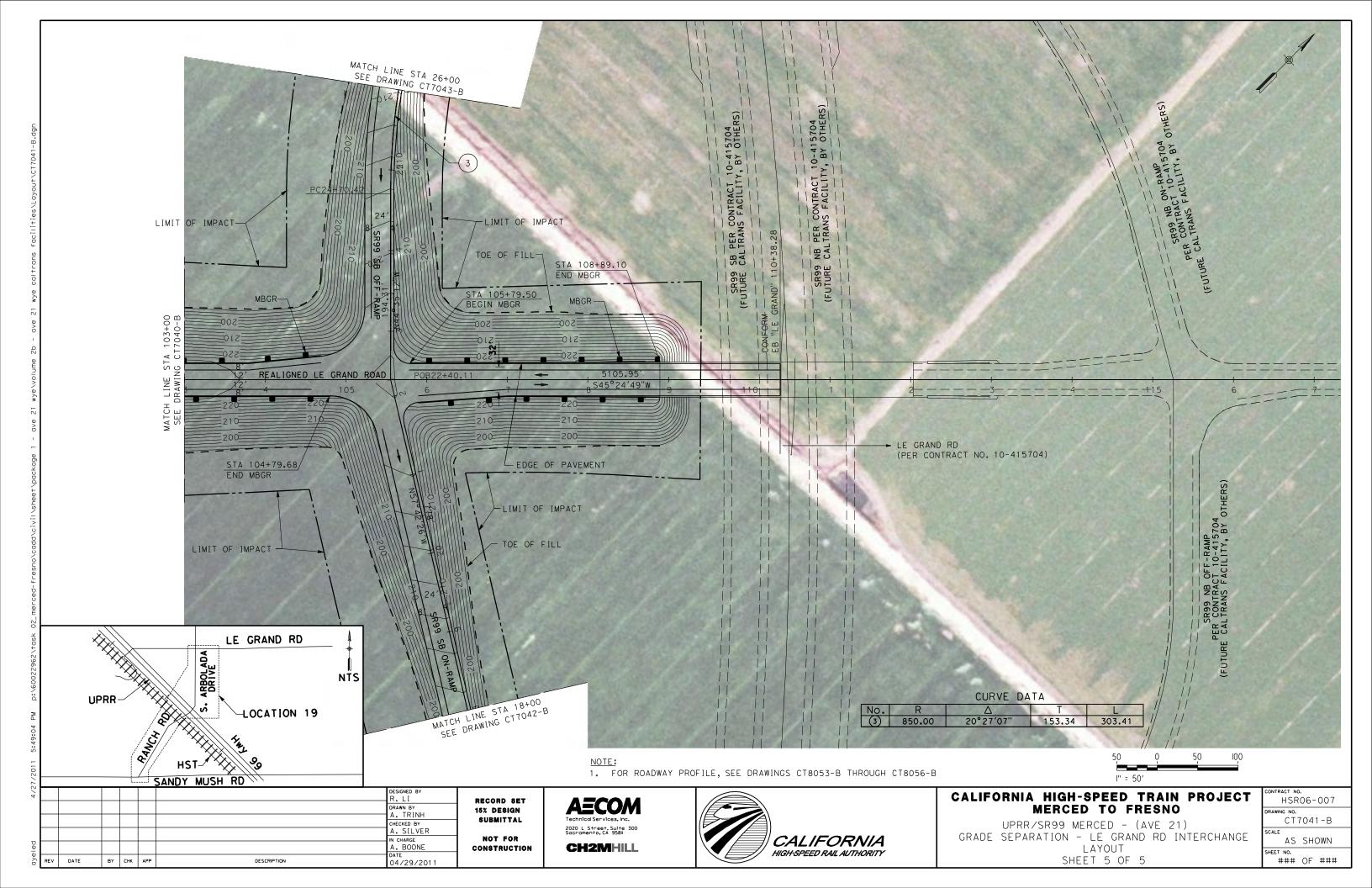


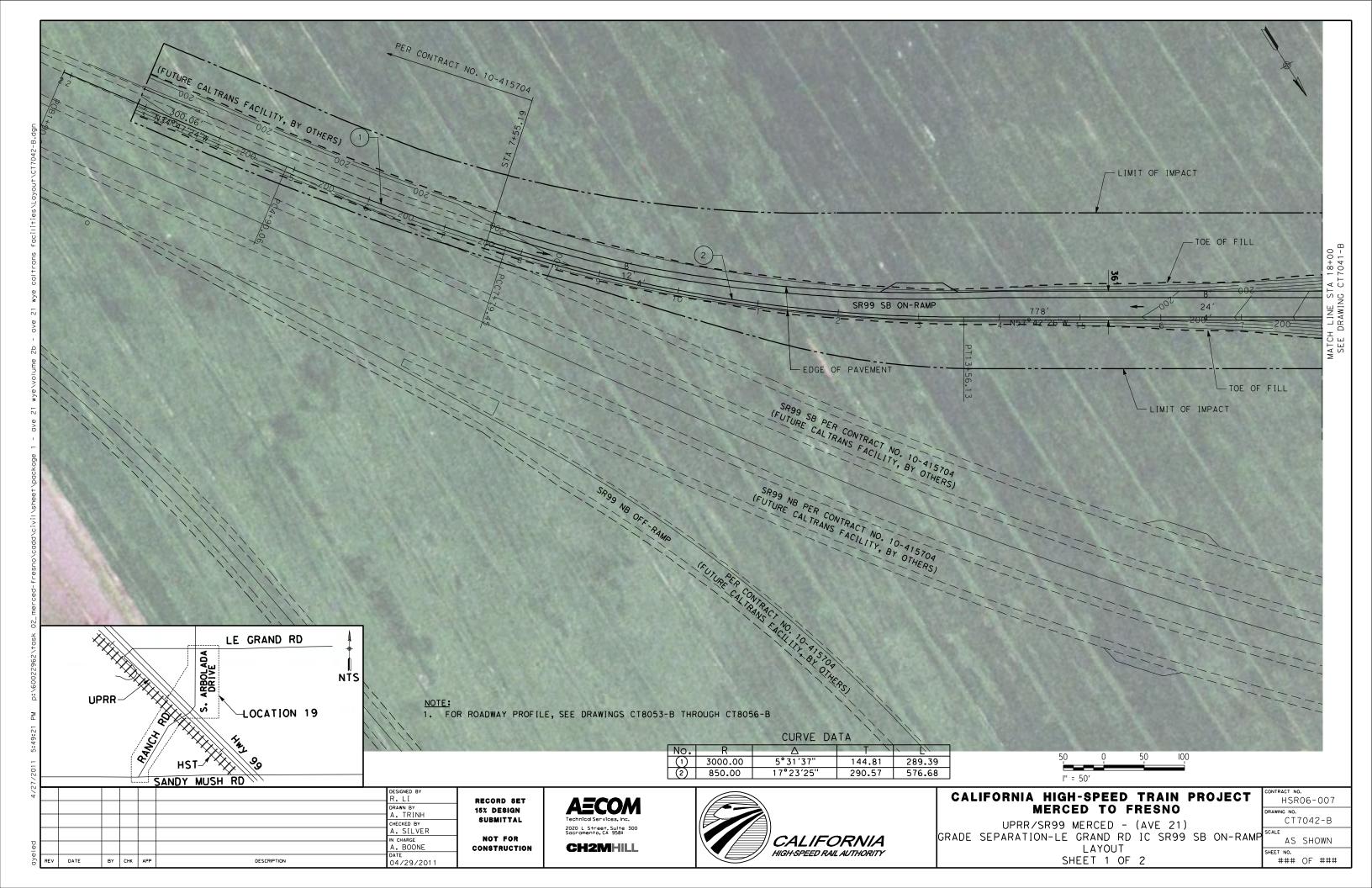


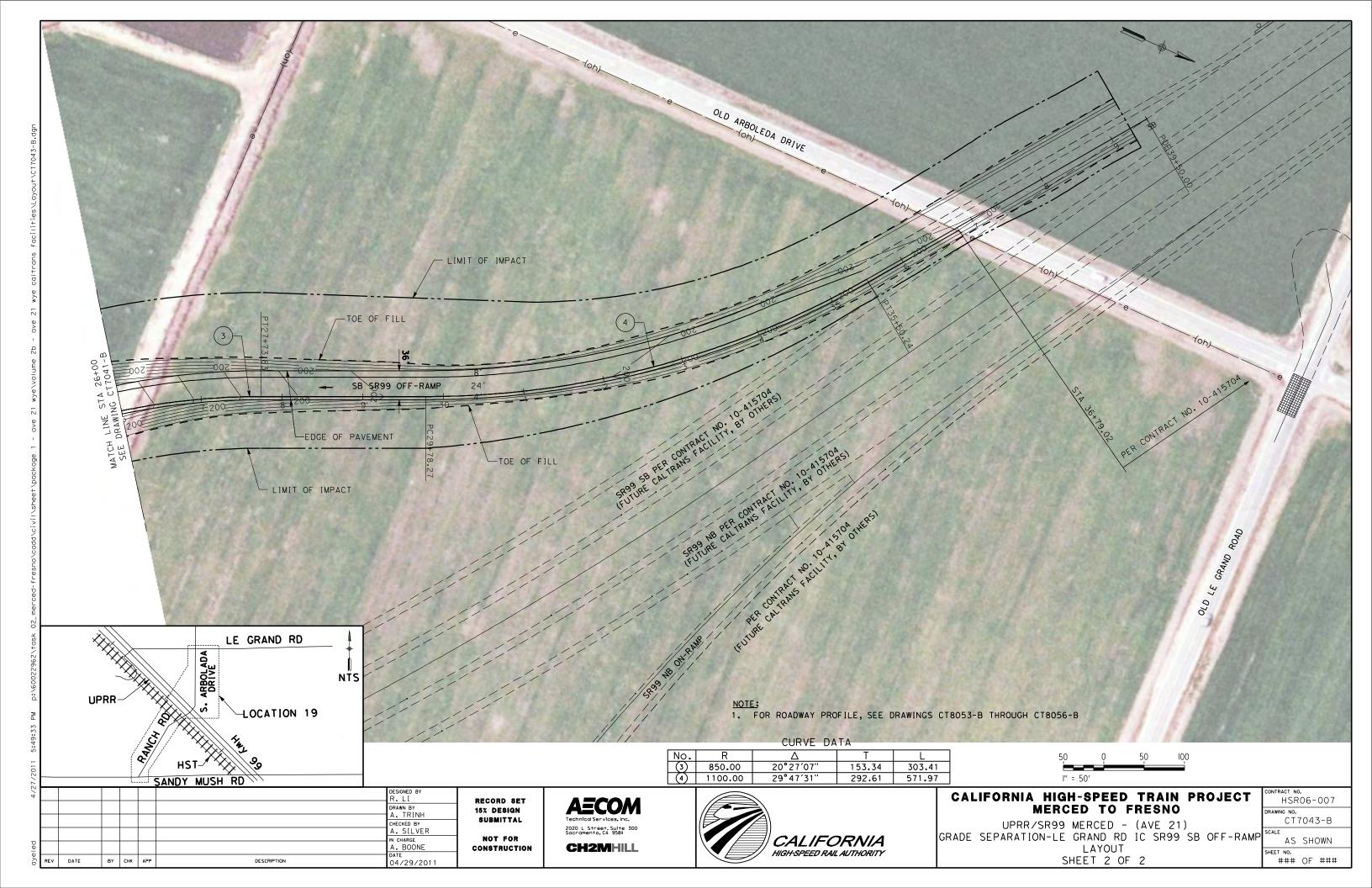












6% 6%_ 4% 4% L+ ETW +3% L+ ShId 2% 2% 17+23.83 BC AXIS OF ROTATION - CONTROL LINE Rt ETW -2% Rt Shid -2% -2% -2% R+ ETW -3% -4% -6% -6% 330 330 SUPERELEVATION 325 325 320 320 315 315 310 305 305 300 300 295 295 +23.83 Elev 281.83 CONFORM 290 290 __ OG 285 PROFILE 0.50% SCALE HORIZ: 1"=50' VERT: 1"=5' 280 115 9 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8000-B UPRR/SR99 MAINLINE - (AVE 21) 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 8 - OVERHEAD NOT FOR IN CHARGE
A. BOONE
DATE
04/29/2011 CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION SHEET NO. ### OF ###

REV DATE

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

SHEET 1 OF 4

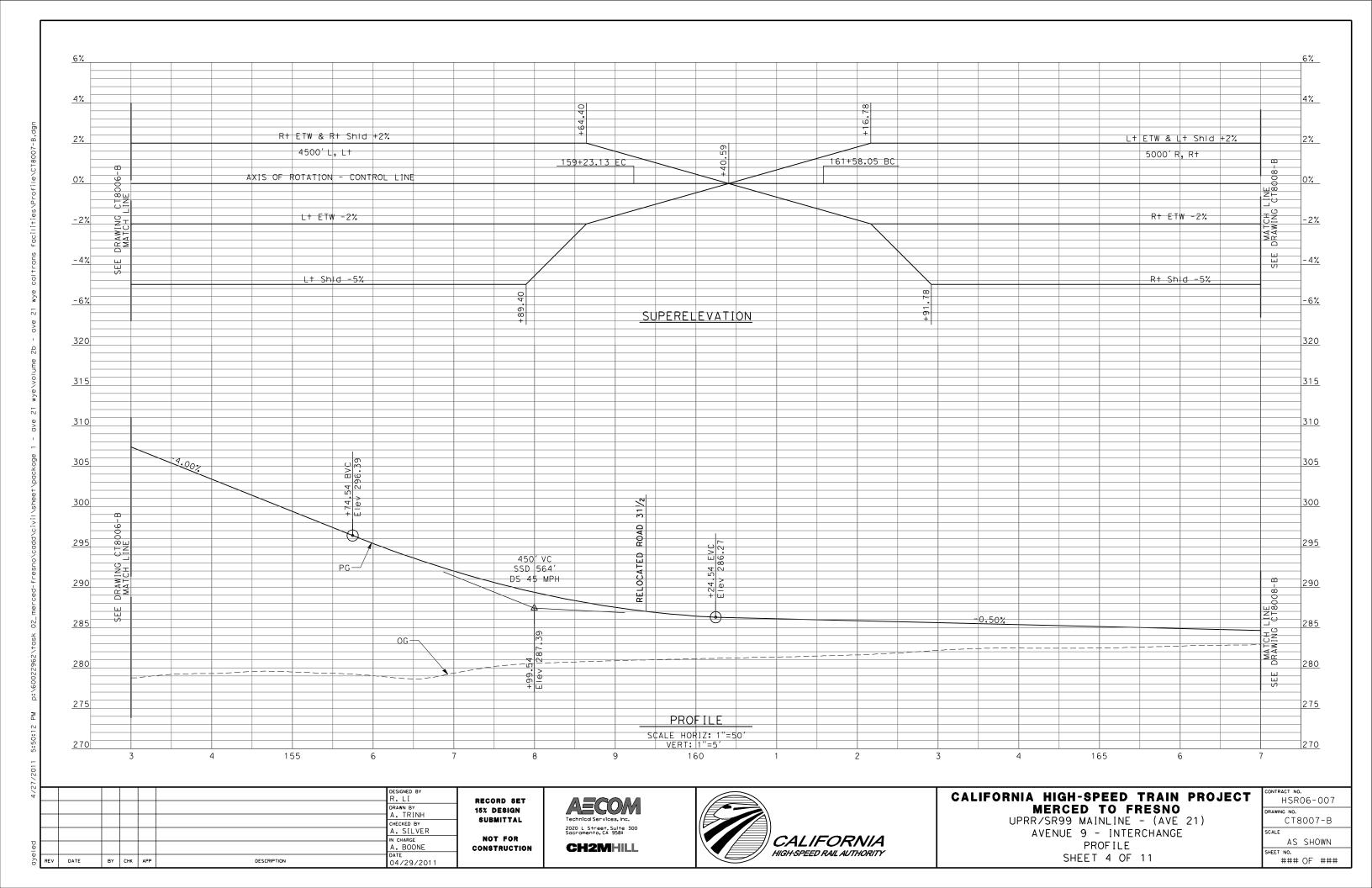
REV DATE

BY CHK APP

DESCRIPTION

04/29/2011

SHEET 2 OF 11



REV DATE

BY CHK APP

DESCRIPTION

SHEET 5 OF 11

<u>345</u> 340 340 335 330 99 თ +01.34 Elev 319.6 CONFORM C AVENUE -83,60 EVC E1ev 317.31 325 320 320 315 280' VC SSD 472' DS 50 MPH 310 310 305 +81.05 EVC Elev 296.01 305 300 300 295 500' VC SSD 577' DS 50 MPH 290 290 0.30% 285 +31.05 Elew 286. 280 280 275 270 270 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 60 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE - (AVE 21) CT8009-B 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 9 - INTERCHANGE SR 99 NB OFF-RAMP IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 6 OF 11

REV DATE

BY CHK APP

DESCRIPTION

BY CHK APP

DESCRIPTION

345 345 340 340 335 330 320 320 315 310 310 305 305 300 300 295 295 290 285 285 -0.30% 280 280 275 270 270 265 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 100 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE - (AVE 21) CT8011-B 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 9 - INTERCHANGE SR 99 NB ON-RAMP NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY SHEET 8 OF 11

BY CHK APP

DESCRIPTION

345 340 340 335 330 320 320 315 310 310 305 305 300 300 295 +86.57 Elev 283.50 LINE 013-B 300' VC S\$D 990' DS 30 MPH PG-280 280 275 270 270 265 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE - (AVE 21) CT8012-B 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 9 OF 11

BY CHK APP

DESCRIPTION

345 345 340 340 335 330 325 320 320 315 310 310 305 305 300 300 295 295 285 285 -0.30% 280 280 275 275 270 270 265 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE - (AVE 21) CT8013-B 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 9 - INTERCHANGE SR 99 SB ON-RAMP NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 10 OF 11

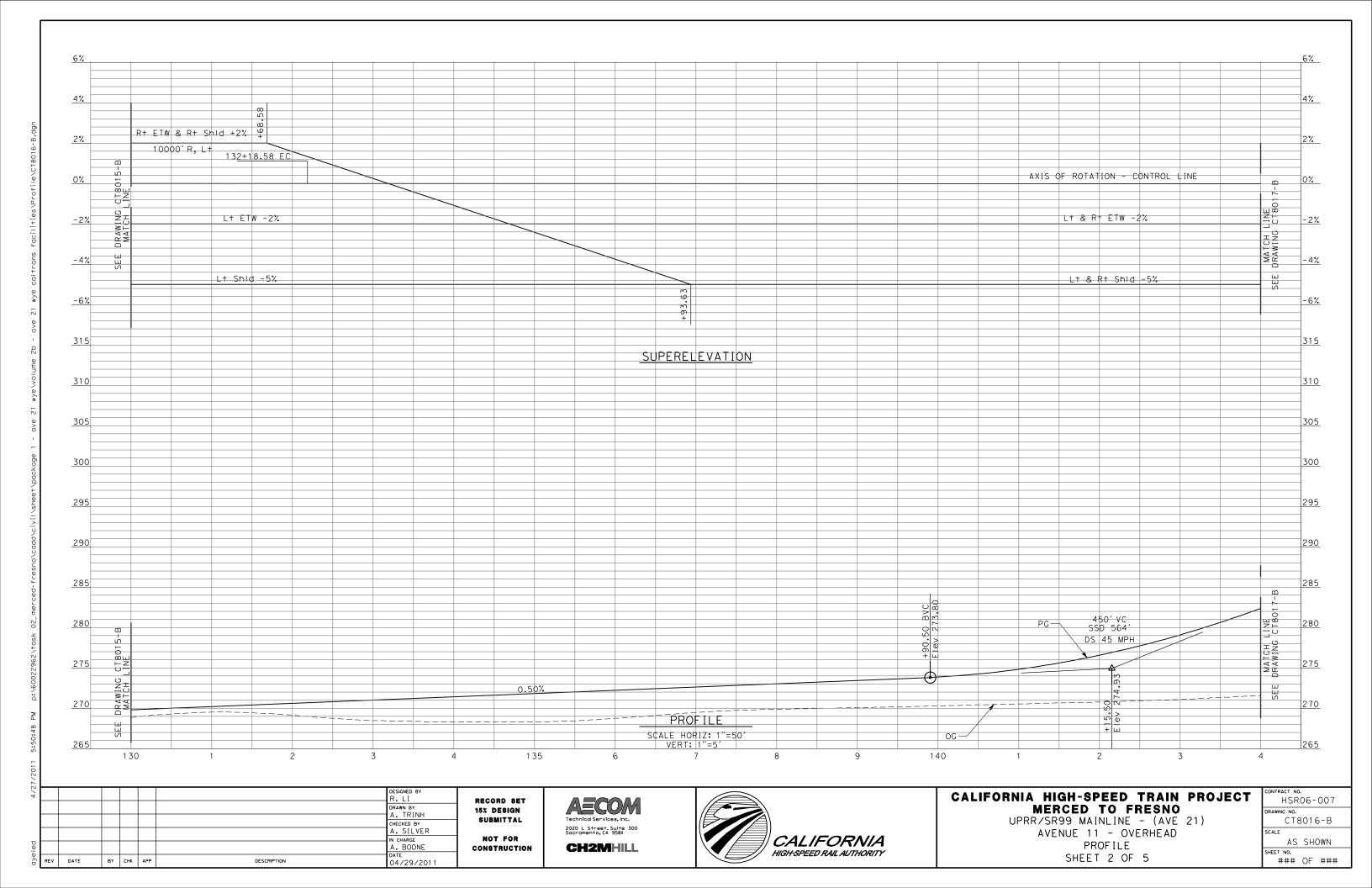
6% 6%_ 4% +35.62 Rt ETW & Rt Shid +2% 2% 2% +35.59 10000'R, L+ 126+85,62 BC AXIS OF ROTATION - CONTROL LINE L+ & R+ ETW -2% L+ ETW -2% -2% -2% -4% Lt Shld -5% -6% -6% SUPERELEVATION 315 315 310 305 305 300 300 295 290 290 285 280 275 OG — 270 0.50% PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 265 125 130 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE - (AVE 21) CT8015-B 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 11 - OVERHEAD NOT FOR IN CHARGE A. BOONE DATE 04/29/2011 CALIFORNIA AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

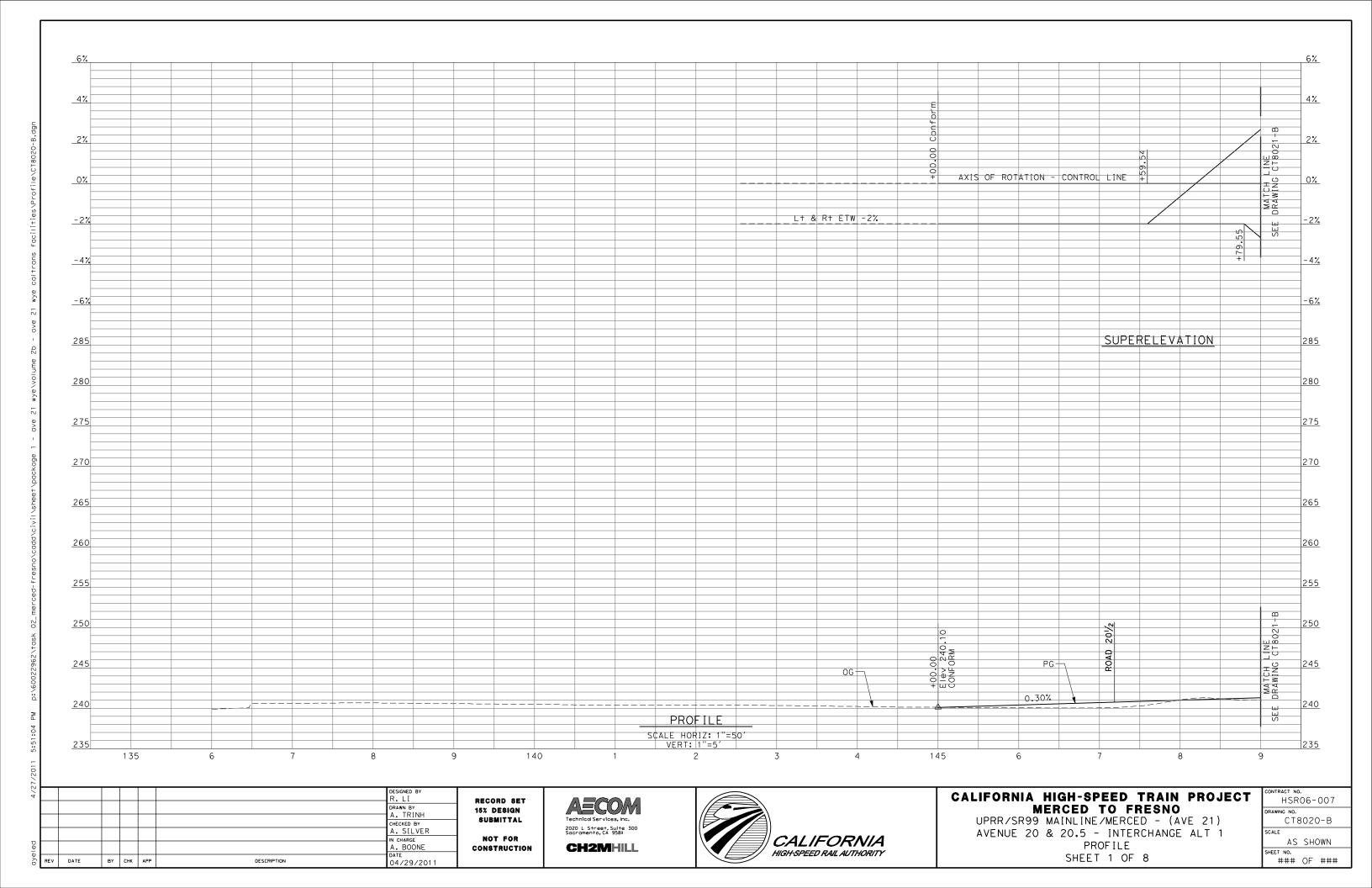
REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 5





6% 6% Rt ETW & Rt Shid +5% 2500'R, L+ 4% 4% 2% 2% AXIS OF ROTATION - CONTROL LINE -2% -4% Lt ETW & Lt Shid -5% -6% -6% 285 285 SUPERELEVATION 280 280 275 275 270 260 260 255 255 LINE CT80 250 -0.50% 300 VC DS 45MPH 0.50% OG-245 245 240 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 235 170 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE/MERCED - (AVE 21) CT8022-B CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811 AVENUE 20 & 20.5 - INTERCHANGE ALT 1 IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 3 OF 8

REV DATE

BY CHK APP

DESCRIPTION

BY CHK APP

DESCRIPTION

BY CHK APP

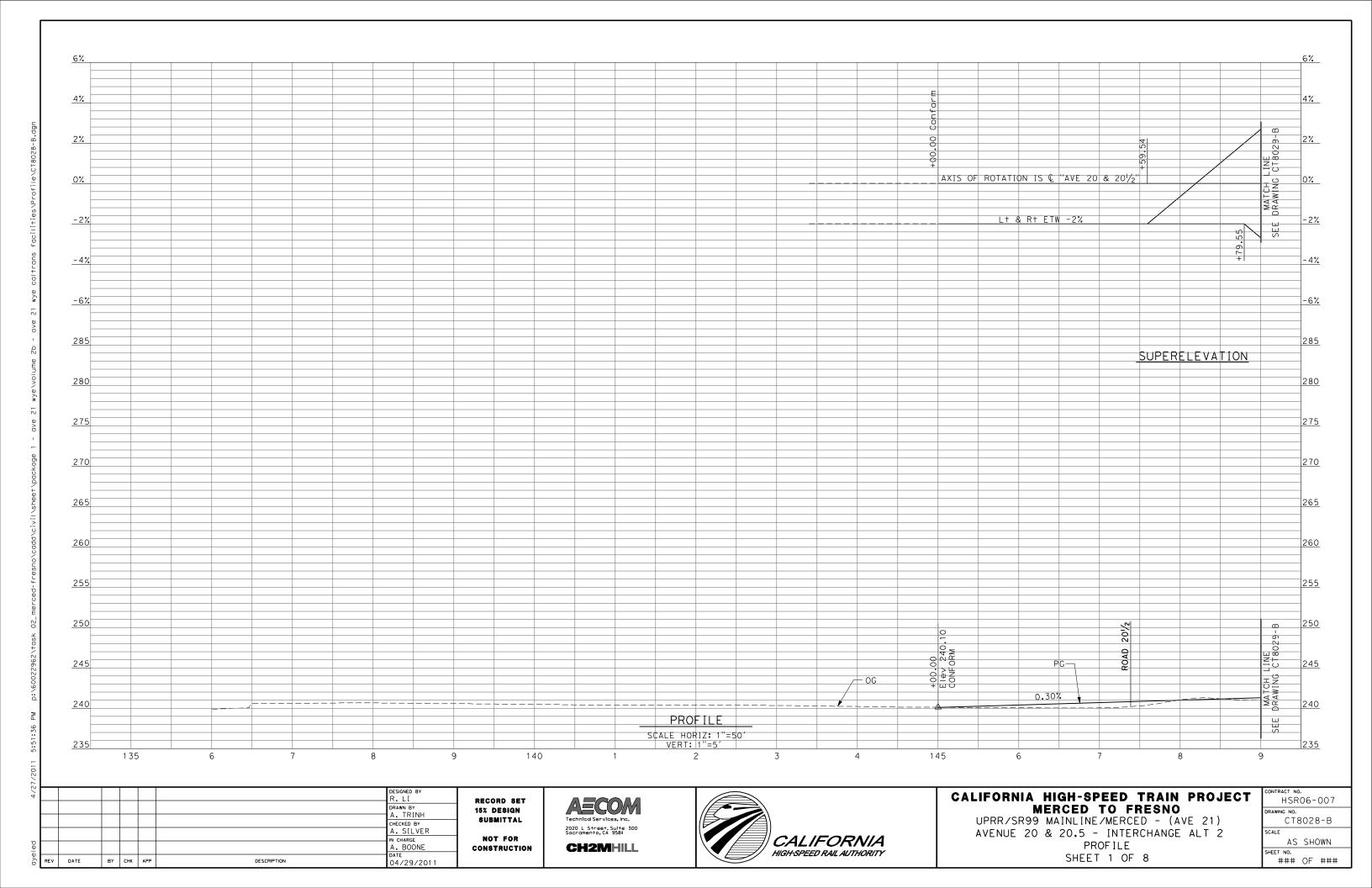
DESCRIPTION

BY CHK APP

BY CHK APP

DESCRIPTION

SHEET 8 OF 8



BY CHK APP

BY CHK APP

DESCRIPTION

BY CHK APP

DESCRIPTION

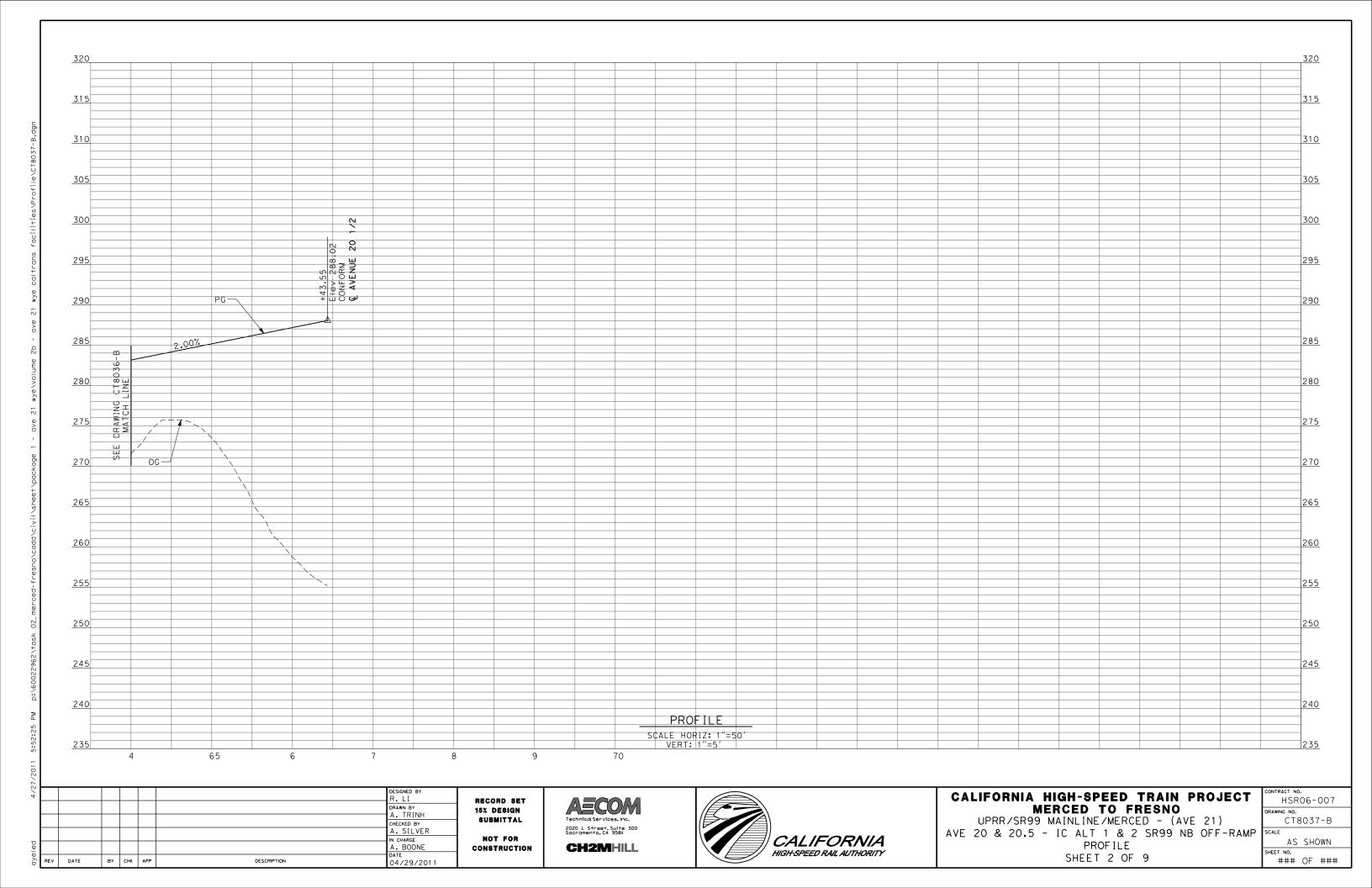
BY CHK APP

DESCRIPTION

320 320 315 310 300 300 290 290 285 285 280 275 275 280' VC SSD 472' DS 50 MPH 270 +74,30 BVC Elev 252,26 260 500′ VC SSD 576′ DS 50MPH 255 250 250 245 245 240 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 235 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE/MERCED - (AVE 21) CT8036-B CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811 AVE 20 & 20.5 - IC ALT 1 & 2 SR99 NB OFF-RAMP IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN **PROFILE CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 1 OF 9

BY CHK APP

DESCRIPTION



BY CHK APP

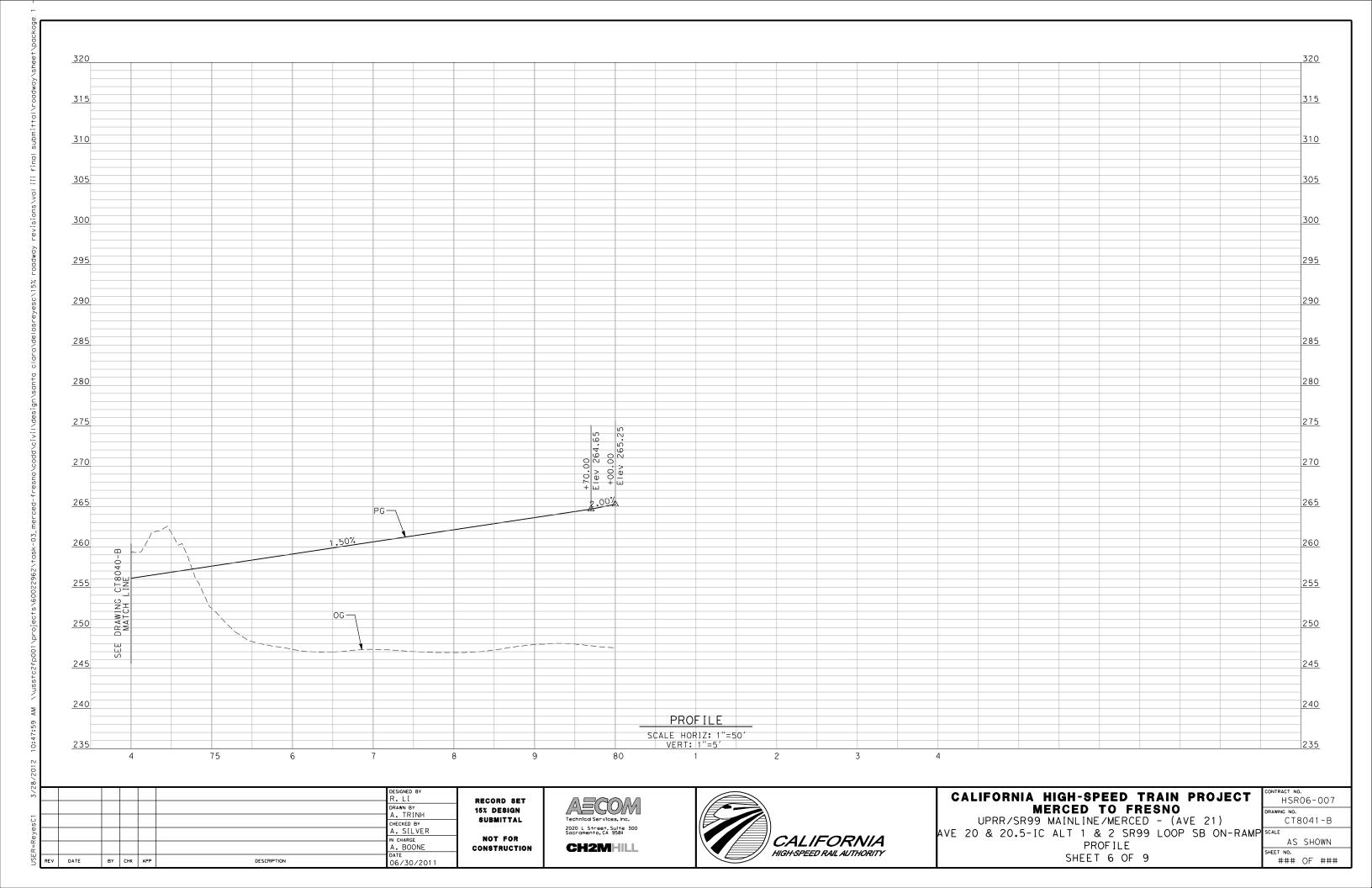
320 320 315 310 305 300 300 290 290 285 285 280 275 275 270 260 +77.25 Elev 250.41 CONFORM 255 255 OG--0.30% 250 250 245 245 240 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE/MERCED - (AVE 21) CT8039-B 2020 L Street, Suite 300 Sacramento, CA 95811 AVE 20 & 20.5 - IC ALT 1 & 2 SR99 NB ON-RAMP NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY

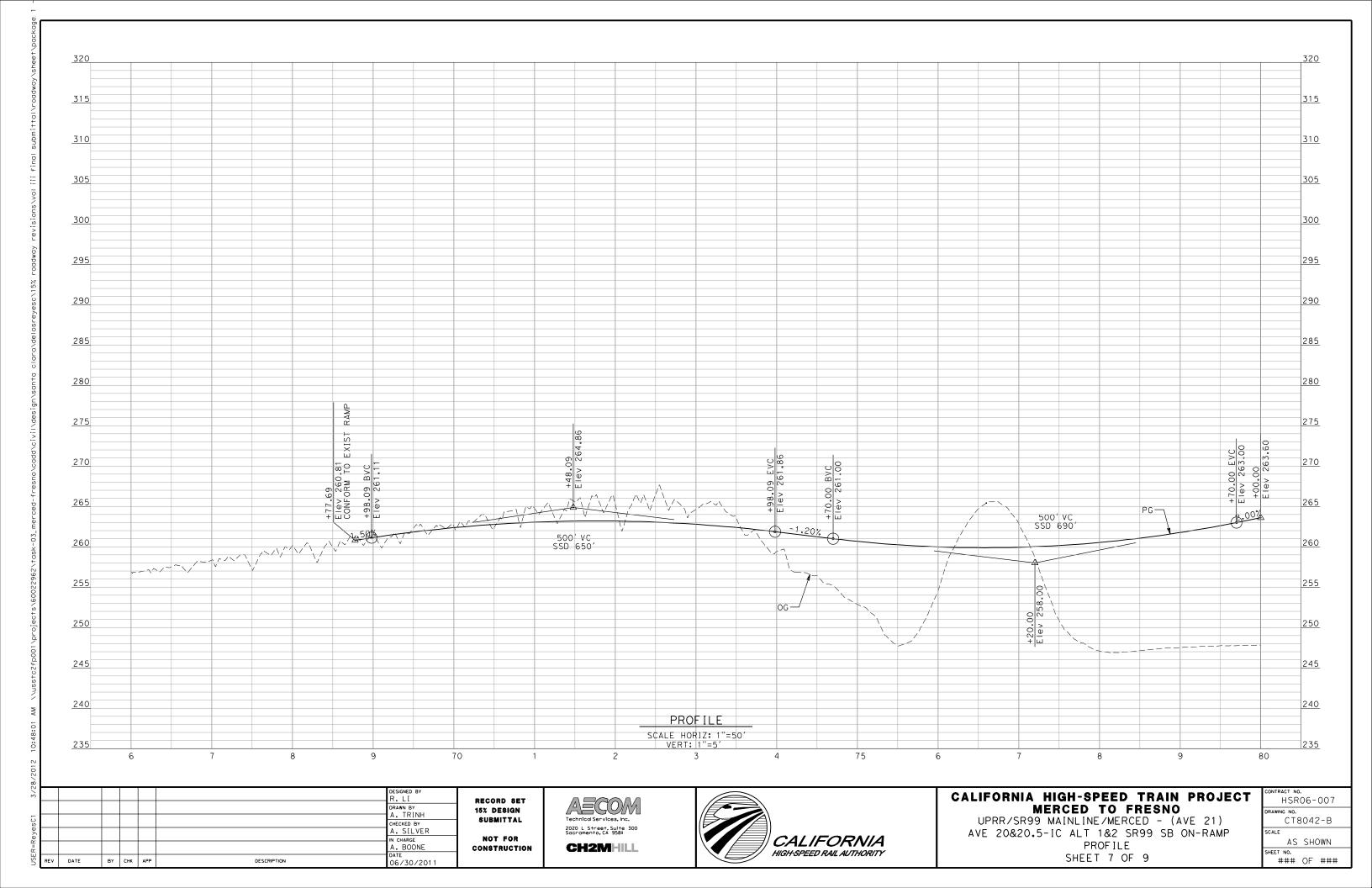
BY CHK APP

DESCRIPTION

SHEET 4 OF 9

320 315 315 310 310 305 300 300 295 295 290 290 285 285 280 280 275 275 270 270 265 265 260 260 PG-500′ VC SSD 2800′ 255 -0.50% 255 250 245 245 240 240 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 235 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT AECOM HSR06-007 RECORD SET drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE/MERCED - (AVE 21) CT8040-B CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811 AVE 20 & 20.5-IC ALT 1 & 2 SR99 LOOP SB ON-RAMP SCALE IN CHARGE A. BOONE DATE 06/30/2011 NOT FOR CALIFORNIA AS SHOWN **PROFILE CH2MHILL** CONSTRUCTION HEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY SHEET 5 OF 9 BY CHK APP DESCRIPTION





320 320 315 310 305 300 300 290 290 285 285 280 280 275 275 270 265 -2.00% 260 260 5001 vc PG-255 255 -0.30% OG — 250 245 245 240 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 235 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL UPRR/SR99 MAINLINE/MERCED - (AVE 21) CT8043-B CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811 AVE 20 & 20.5 - IC ALT 1 & 2 SR99 SB OFF-RAMP SCALE NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE 04/29/2011 AS SHOWN PROFILE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 8 OF 9 ### OF ###

BY CHK APP

BY CHK APP

DESCRIPTION

SHEET 9 OF 9

6% 6% 4% 4% LINE CT8046-B 14+86.64 BC 2% 2% AXIS OF ROTATION - CONTROL LINE L+ & R+ ETW +2% -2% SEE L+ & R+ SHLD -4% -6% SUPERELEVATION 250 250 245 245 240 240 235 235 230 225 225 220 220 +86.07 Elev 209.86 CONFORM MATCH LINE DRAWING CT8046-B OG-210 -0.30% 205 205 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 200 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM DRAWN BY
A. TRINH
CHECKED BY
A. SILVER MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8045-B UPRR/SR99 MERCED - (AVE 21)
GRADE SEPARATION - SANDY MUSH RD INTERCHANGE 2020 L Street, Suite 300 Sacramento, CA 95811 IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 3

6%_ 6% 4% 2% AXIS OF ROTATION - CONTROL LINE L INE C T 80. L+ & R+ ETW -2% SEE L+ & R+ ShId -5% -6% SUPERELEVATION 230 230 220 220 215 205 205 200 200 195 PG-190 V OG 185 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' SEE 180 180 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8049-B CHECKED BY A. SILVER UPRR/SR99 MERCED - (AVE 21) 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION - LE GRAND RD INTERCHANGE IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 2 OF 5 ### OF ### BY CHK APP DESCRIPTION

265 260 260 255 245 245 240 230 230 220 220 PER CONTRACT NO. 10-415704
GRADE CONTROL BY "A" (RTE 99) 215 CROSS SLOPE FUTURE CALTRANS FACILITY, BY OTHERS 205 PG-470' VC 200 DH 0G – 190 190 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 180 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8053-B CHECKED BY A. SILVER UPRR/SR99 MERCED - (AVE 21) 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 1 OF 4 ### OF ### BY CHK APP DESCRIPTION

265 265 260 260 255 245 245 GRADE CONTROL BY LE GRAND" CROSS SLOPE 240 "LE GRAND" 105+55.50 "SB ON-RAMP" 22+20.56 PER CONTRACT NO. 10-415704 Elev 220.38 230 230 1.59% 120' VC 220 220 215 EXIST \$B ON-RAMP "R1" PROFILE 205 PER CONTRACT NO. 10-415704 470' VC 200 200 195 195 190 190 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8054-B CHECKED BY A. SILVER UPRR/SR99 MERCED - (AVE 21) 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 2 OF 4 ### OF ### BY CHK APP DESCRIPTION 04/29/2011

265 260 260 255 245 245 240 GRADE CONTROL BY "LE GRAND" CROSS SLOPE "LE GRAND" 105+55.50 E I EW 224.60 CONFORM E GRAND 1 89.71 BVC "SB OFF-RAMP" 22+40.11 Elev 224.60 PER CONTRACT NO. 10-415704 230 230 "R3" 22+40.11 "LG" 105+55.50 POT Elev 220.38 2.00% 120' VC 220 220 215 EXIST SB OFF-RAMP "R3" PROFILE PER CONTRACT NO. 10-415704 570' VC 205 SSD 435 DS 50MPH 200 200 200′ VC 195 190 190 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 180 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET AECOM drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8055-B CHECKED BY A. SILVER UPRR/SR99 MERCED - (AVE 21) 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP NOT FOR CALIFORNIA IN CHARGE A. BOONE DATE AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 3 OF 4 ### OF ### BY CHK APP DESCRIPTION 04/29/2011

265 265 260 260 255 250 245 245 240 230 230 220 220 215 PER CONTRACT NO. 10-415704 GRADE CONTROL BY "A" (RTE 99) CROSS SLOPE FUTURE CALTRANS FACILITY, BY OTHERS 205 205 PG ¬ -0.30% 능론 200 200 195 195 190 190 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 180 DESIGNED BY CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET drawn by A. TRINH MERCED TO FRESNO 15% DESIGN SUBMITTAL CT8056-B CHECKED BY A. SILVER UPRR/SR99 MERCED - (AVE 21) 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP IN CHARGE A. BOONE DATE 04/29/2011 NOT FOR CALIFORNIA AS SHOWN **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 4 OF 4 ### OF ### BY CHK APP DESCRIPTION

DRAWING TITLE LINE 3

ST1111 UPRR/SR 99 MAIN LINE/MERCED CONNECTION AVENUE 21

ST1112 UPRR/SR 99 MAIN LINE/MERCED CONNECTION

ST1113 UPRR/SR 99 MERCED CONNECTION

ST1114 UPRR/SR 99 MERCED CONNECTION

ST1181 UPRR/SR 99 MERCED CONNECTION

SB1111 UPRR/SR 99 ALTERNATIVE

SB1112 UPRR/SR 99 ALTERNATIVE

ST1107 UPRR/SR 99 MAIN LINE

ST1108 UPRR/SR 99 MAIN LINE

ST1109 UPRR/SR 99 MAIN LINE

ST1110 UPRR/SR 99 MAIN LINE

SHT DWG NO. NO.

DRAWING TITLE LINE 4

AVENUE 21

ROADWAY BRIDGE STRUCTURE PLANS UPRR/SR 99 AVENUE 21 ALTERNATIVE GENERAL

OVERHEAD BRIDGES

RECO 15% SUB CONSTRUCTION





SHEET TITLE

LINE 6

PLANNING STUDY - BRIDGE AT UPPR

PLANNING STUDY - BRIDGE AT UPPR

PLANNING STUDY - BRIDGE AT SR 99

PLANNING STUDY - BRIDGE AT SR 99

SHEET 1 OF 1

PLANNING STUDY

PLANNING STUDY

PLANNING STUDY

PLANNING STUDY

PLANNING STUDY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 ALTERNATIVE AVENUE 21 INDEX OF DRAWINGS SHEET 1 OF 1

CUNTRACT NO.
HSR06-007
DRAWING NO.
SB1111
SCALE
NI I -

No scale SHEET NO.

ORD SET	AECO/
BMITTAL Ot for	2020 L Street, Suite Sacramento, CA 9581
DI FUK	

SHEET TITLE LINE 5

INDEX OF DRAWINGS

STRUCTURE INDEX MAP

AVENUE 8 OVERHEAD - REPLACEMENT

AVENUE 9 OVERHEAD - REPLACEMENT

AVENUE 9 OVERCROSSING - REPLACEMENT

AVENUE 201/2 OVERHEAD - REPLACEMENT

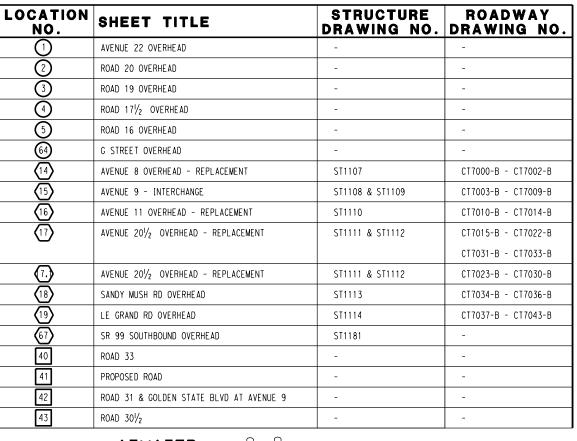
AVENUE 201/2 OVERCROSSING - REPLACEMENT

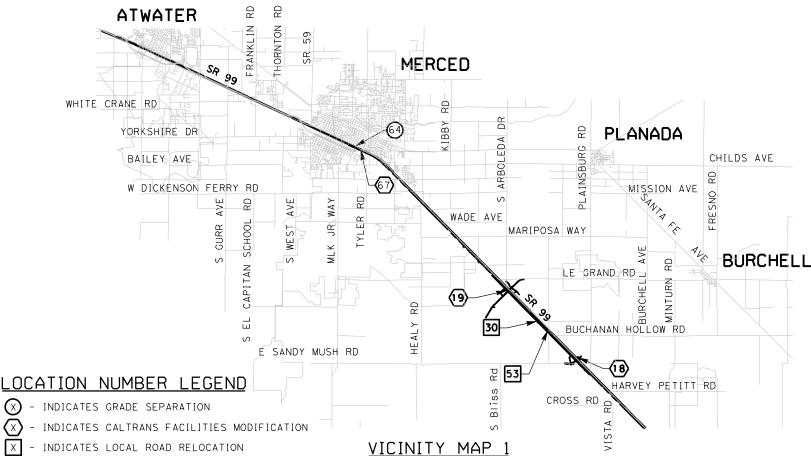
AVENUE 11 OVERHEAD - REPLACEMENT

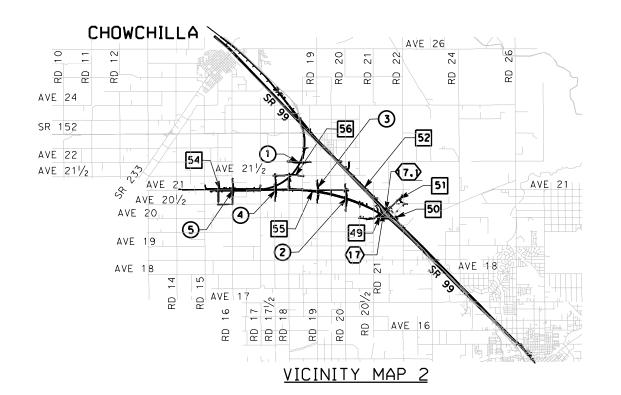
SANDY MUSH ROAD OVERHEAD

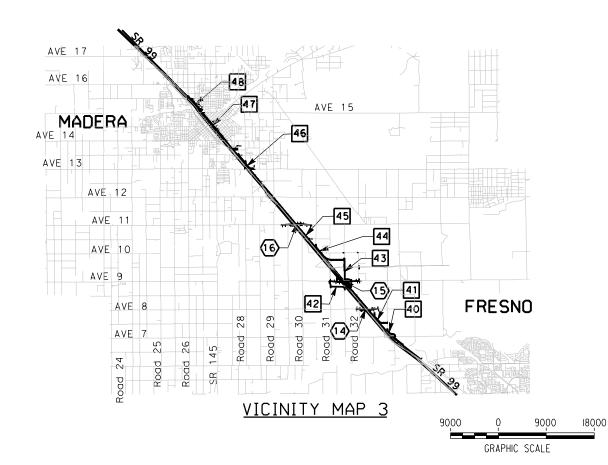
SR 99 SOUTHBOUND OVERHEAD

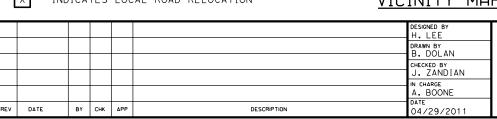
LE GRAND ROAD OVERHEAD











RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L. Street, Suite 300
Sacramento, CA 958II
CH2MHILL



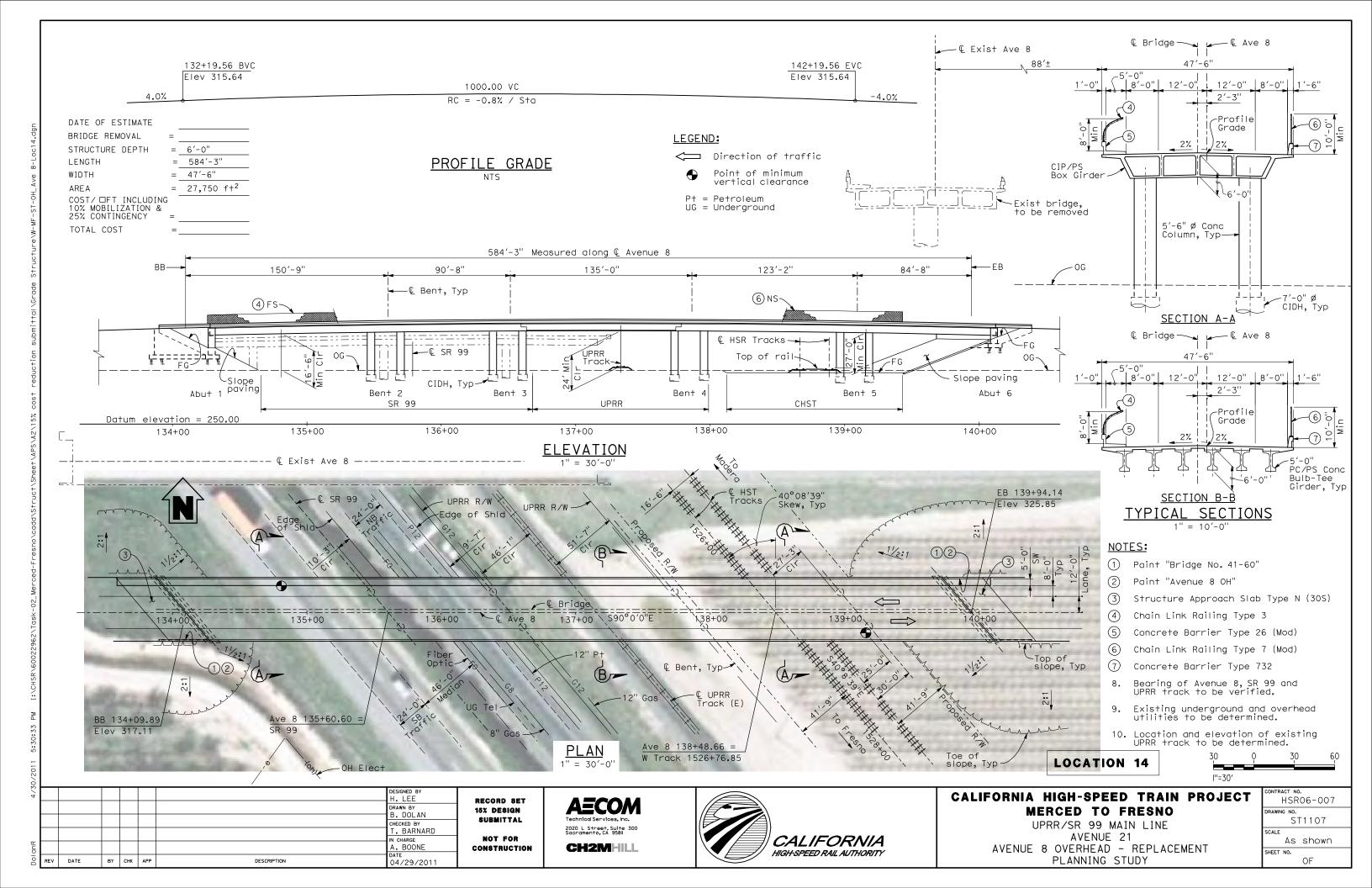
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

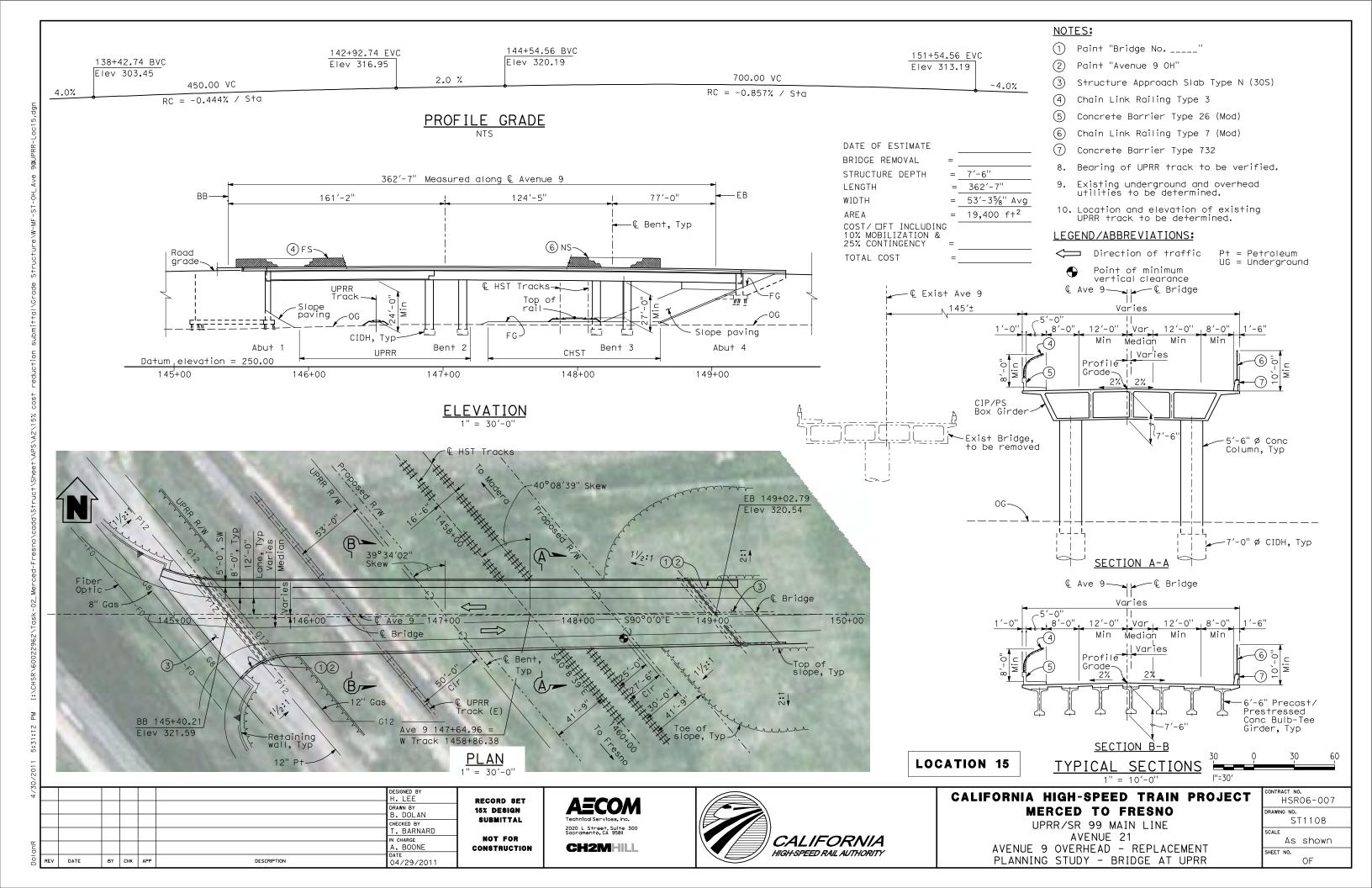
UPRR/SR 99 ALTERNATIVE AVENUE 21 STRUCTURE INDEX MAP SHEET 1 OF 1

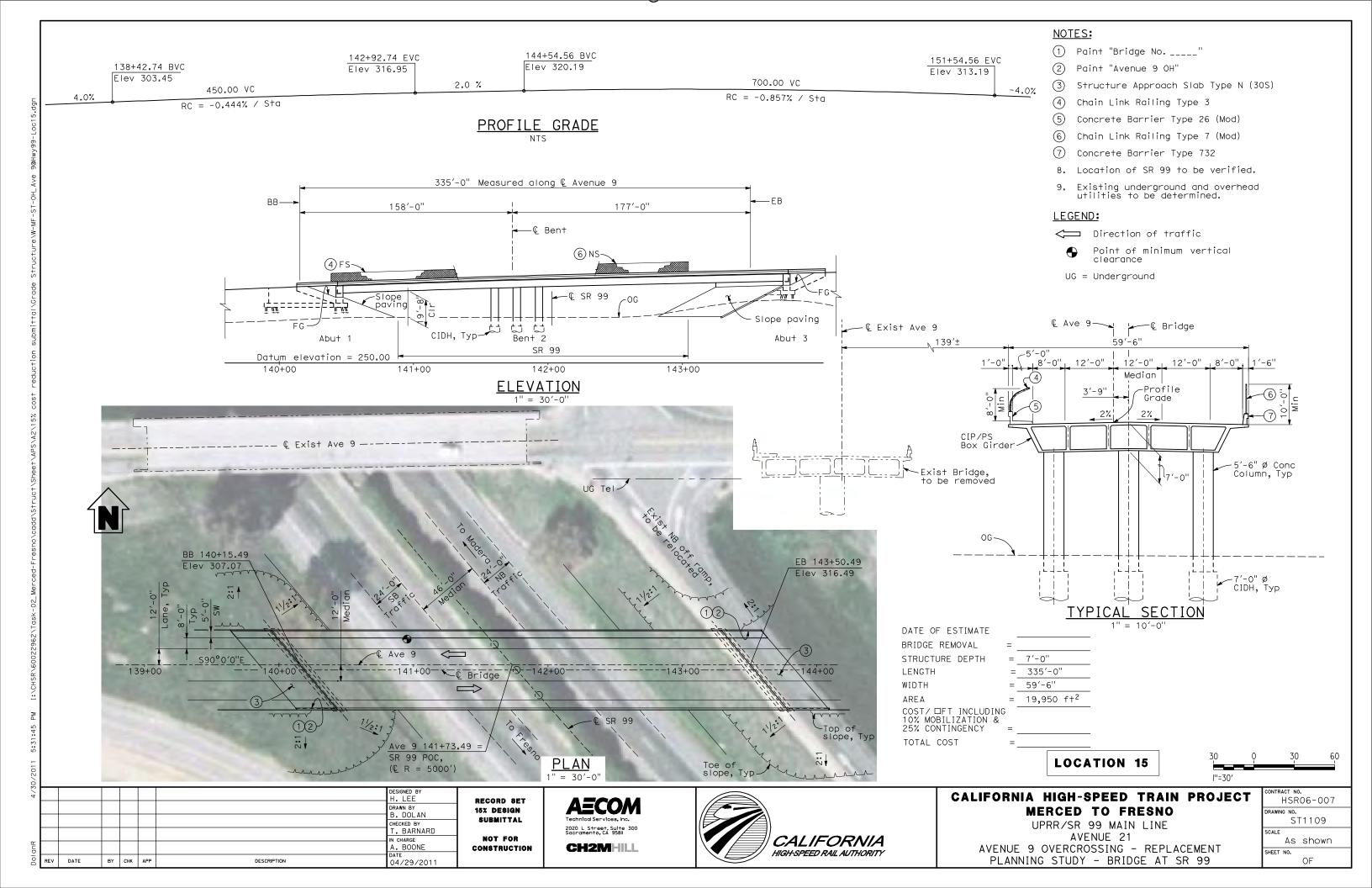
ISR06-007			
DRAWING NO. SB1112			
No scale			
	HSR06-007 S NO. SB1112		

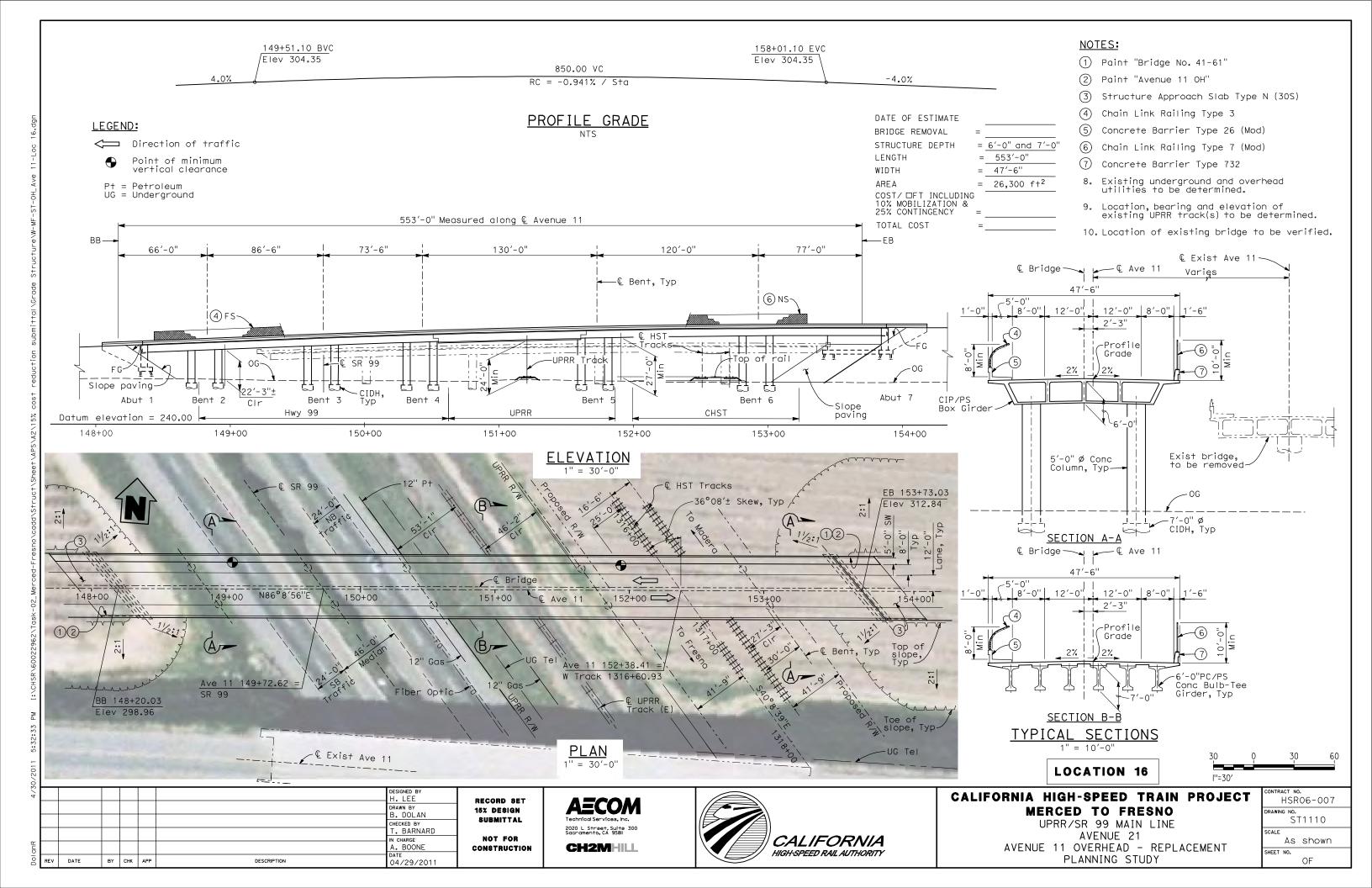
OF

SHEET NO.

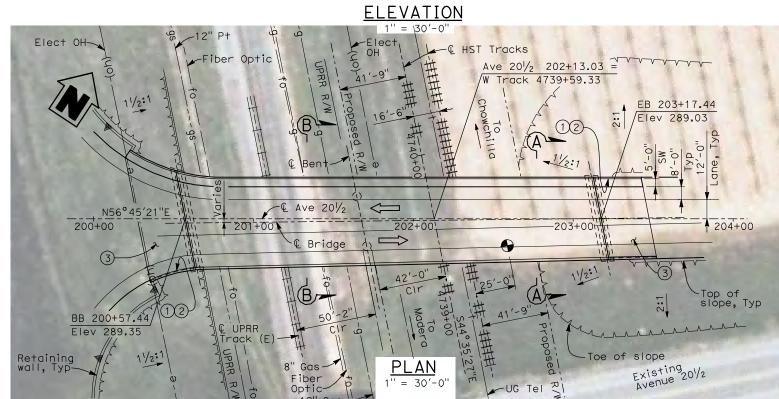








260'-0" Measured along € Avenue 201/2 110'-0' 150'-0" Retaining wall--@ Bent Road grade Track-CIDH-Slope paving Abut 3 Abu+ Bent **UPRR** CHST Datum elevation = 220.00 200+00 201+00 202+00 203+00 204+00

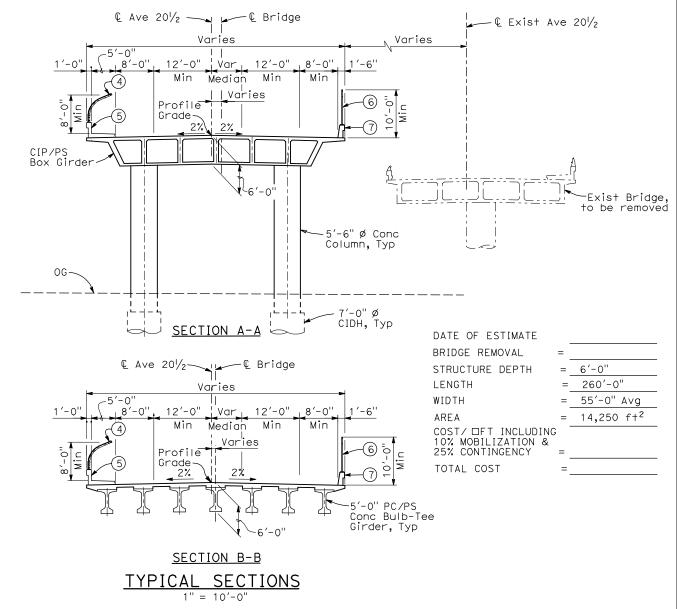


Point of minimum vertical

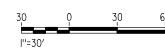
UG = Underground

NOTES:

- 1 Paint "Bridge No. _____
 - Paint "Avenue 201/2 OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of UPRR track to be verified.
- Existing underground and overhead utilities to be determined.
- 10. Location and elevation of existing UPRR track to be determined.



LOCATION 17 & 17.1



					12" Gas - 1		-
						DESIGNED BY H. LEE	Γ
						DRAWN BY P. ARIGO	
						CHECKED BY T. BARNARD	
						IN CHARGE A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

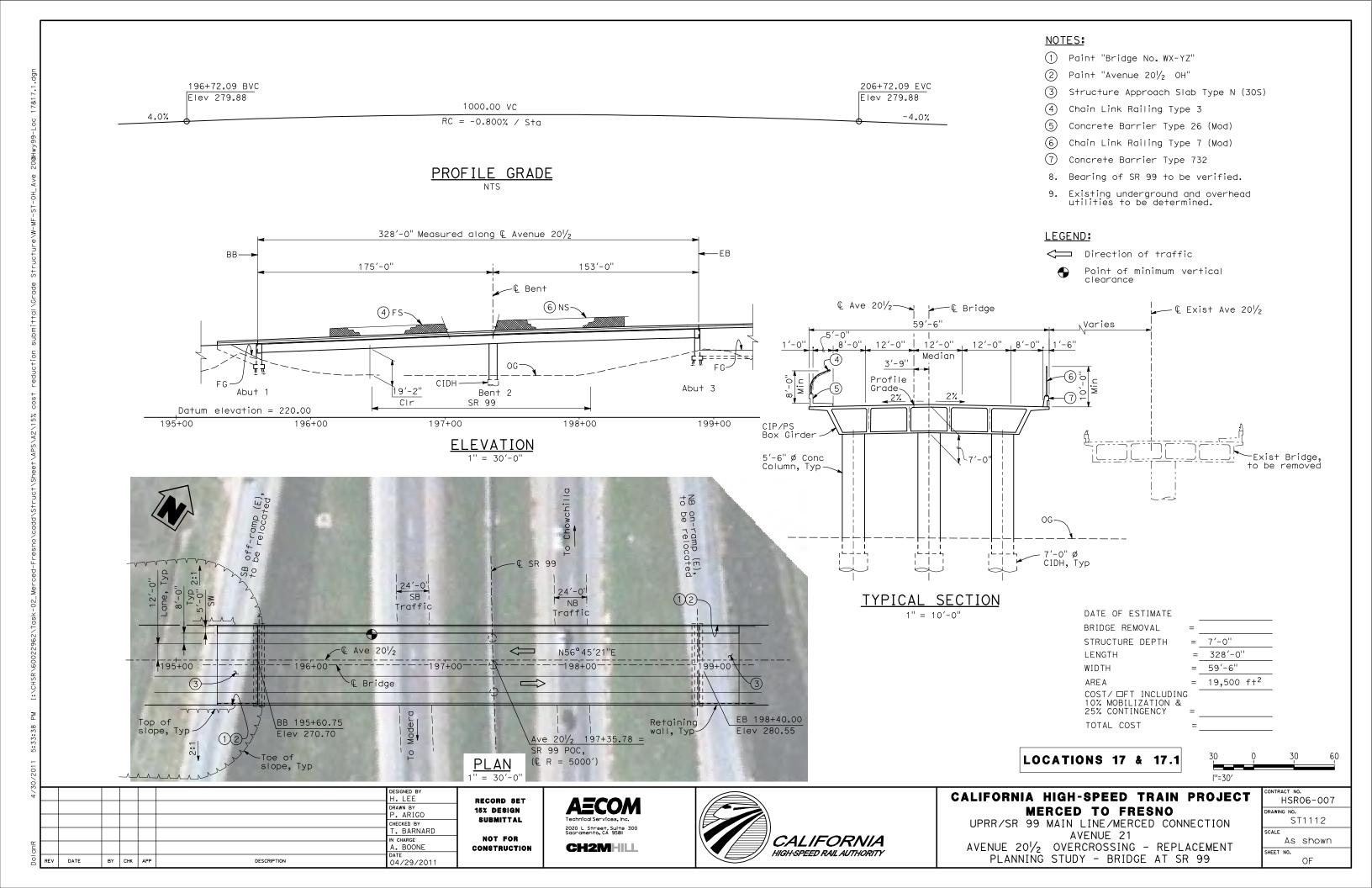
AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

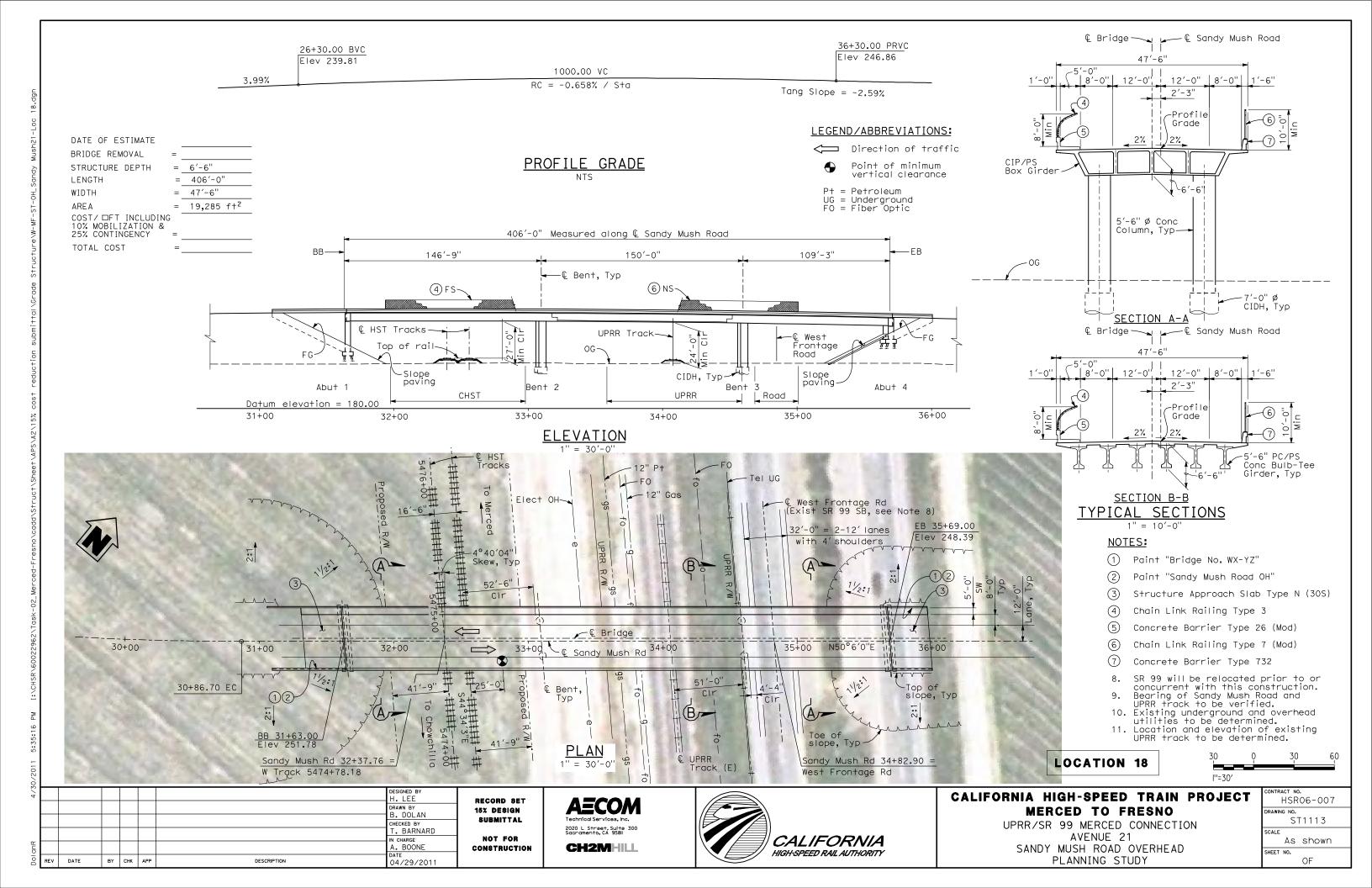


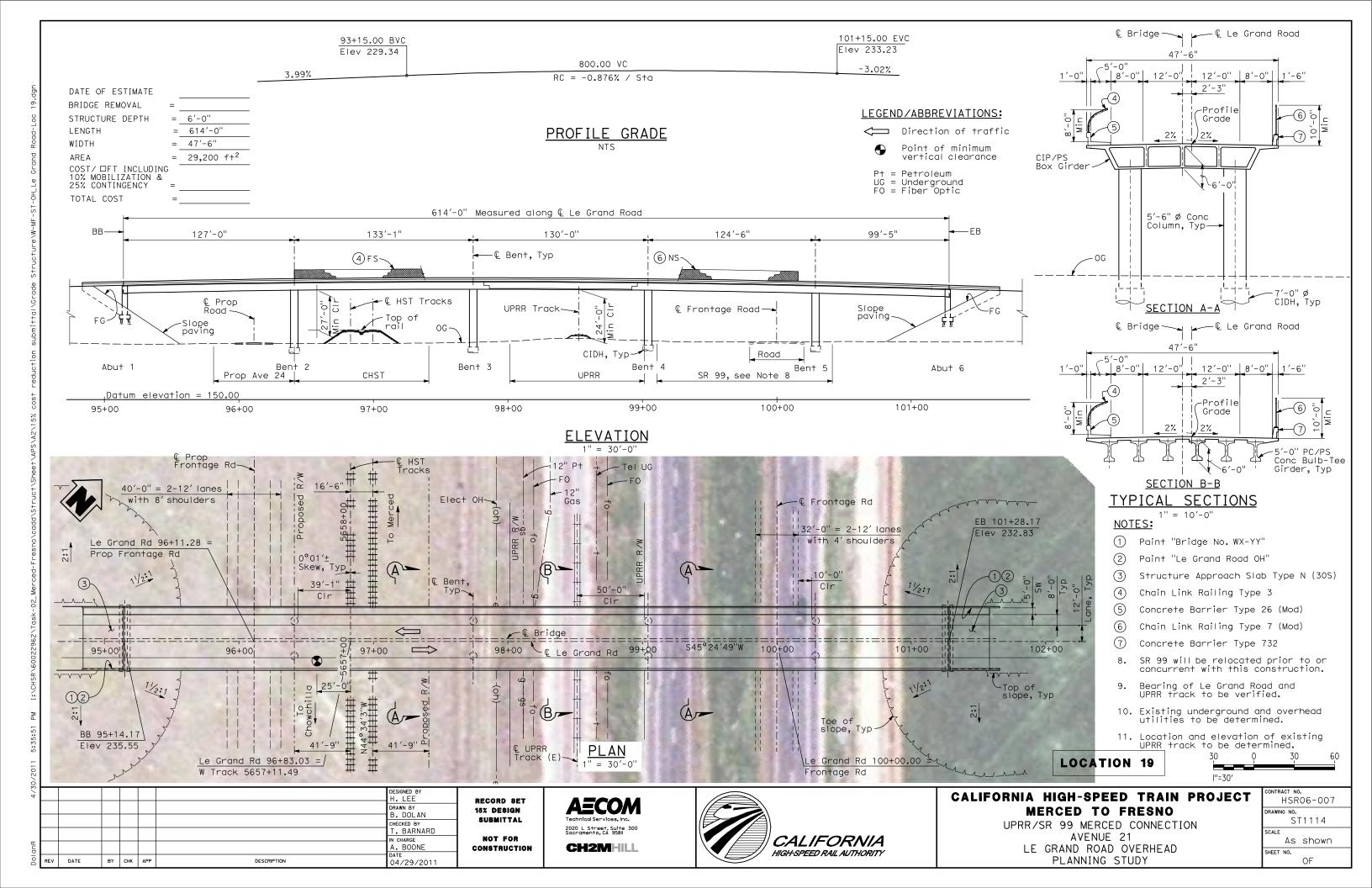
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

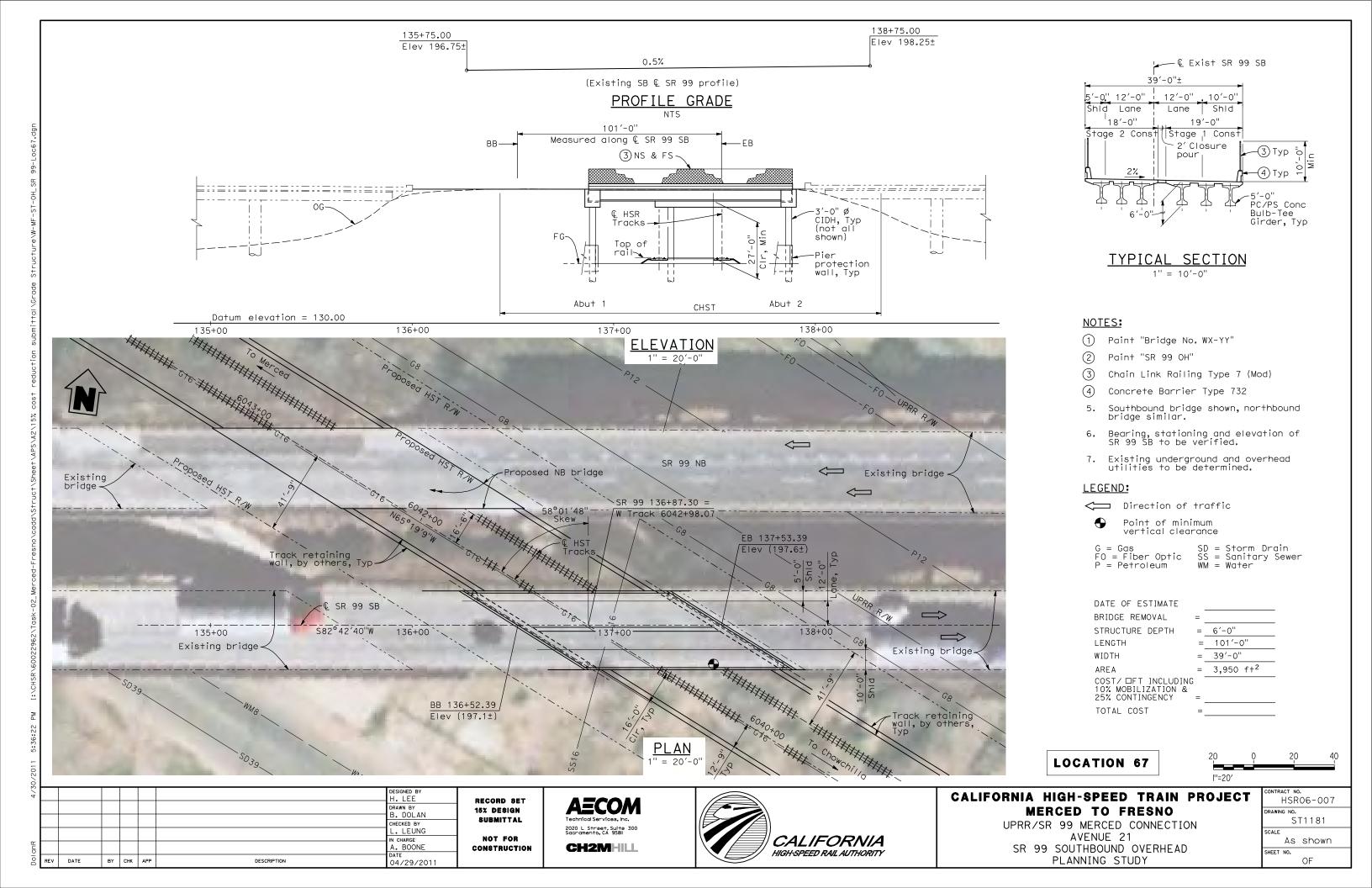
UPRR/SR 99 MAIN LINE/MERCED CONNECTION AVENUE 21 AVENUE 201/2 OVERHEAD - REPLACEMENT PLANNING STUDY - BRIDGE AT UPRR

HSR06-007 ST1111 As shown OF









OCATION NO.	SHT DWG No. No.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
'	•		GENERAL		
	B8990-B	UPRR/SR99 - (AVE 21)	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		UPRR/SR99 - (AVE 21)	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		UPRR/SR99 - (AVE 21)	CENEIRAL	INDEX MAP	SHEET 1 OF 2
		UPRR/SR99 - (AVE 21)		INDEX MAP	SHEET 2 OF 2
		UPRR/SR99 MAINLINE - (AVE 21)	LOCAL & FRONTAGE RD	KEY MAP	SHEET 1 OF 4
	CB9000 B	UPRR/SR99 MAINLINE - (AVE 21)	LOCAL & FRONTAGE RD	KEY MAP	SHEET 2 OF 4
		UPRR/SR99 MAINLINE/WYE/MERCED - (AVE 21		KEY MAP	SHEET 3 OF 4
		UPRR/SR99 MERCED - (AVE 21)	LOCAL & FRONTAGE RD	KEY MAP	SHEET 4 OF 4
		UPRR/SR99 - (AVE 21)	LOCAL ROADS	TYPICAL CROSS SECTIONS	SHEET 1 OF 2
		UPRR/SR99 - (AVE 21)	LOCAL ROADS	TYPICAL CROSS SECTIONS	SHEET 2 OF 2
		UPRR/SR99 - (AVE 21)	DEPRESSED ACCESS ROAD	TYPICAL CROSS SECTIONS	SHEET 1 OF 1
		UPRR/SR99 - (AVE 21)	DETRESSED ACCESS NOAD	GENERAL STAGE CONSTRUCTION AND TRAFFIC F	
	[CN0333-B	OFNN/3N99 - (AVE 21)	LAYOUT	DENERAL STAGE CONSTRUCTION AND TRAFFIC F	- LAIN JOHEET TOP T
40	CROON-B	UPRR/SR99 MAINLINE - (AVE 21)	ROAD 33	LAYOUT	STA 13+21 TO STA 58+86
41		UPRR/SR99 MAINLINE - (AVE 21)	REALIGNED ROAD	LAYOUT	STA 10+00 TO STA 45+94
42		UPRR/SR99 MAINLINE - (AVE 21)	ROAD 31 & GOLDEN STATE BLVD AT AVENUE 9	LAYOUT	STA 10400 TO 31A 43494 STA 106+00 TO 120+00 & STA 100+00 TO 130+35.6
43		UPRR/SR99 MAINLINE - (AVE 21)	ROAD 31 1/2	LAYOUT	SHEET 1 OF 4
43		UPRR/SR99 MAINLINE - (AVE 21)	ROAD 31 1/2	LAYOUT	SHEET 2 OF 4
43			ROAD 30 1/2 & ROAD 31 1/2		
44		UPRR/SR99 MAINLINE - (AVE 21) UPRR/SR99 MAINLINE - (AVE 21)	ROAD 30 1/2 & ROAD 31 1/2	LAYOUT	SHEET 3 OF 4
			ROAD 30 AT AVENUE 11	LAYOUT	SHEET 4 OF 4
45		UPRR/SR99 MAINLINE - (AVE 21)		LAYOUT	SHEET 1 OF 2
45		UPRR/SR99 MAINLINE - (AVE 21)	ACCESS ROAD AT AVENUE 11	LAYOUT	SHEET 2 OF 2
46		UPRR/SR99 MAINLINE - (AVE 21)	S KNOX ST	LAYOUT	STA 10+00 TO STA 34+67
47		UPRR/SR99 MAINLINE - (AVE 21)	N E ST AND S E ST	LAYOUT	SHEET 1 OF 2
48		UPRR/SR99 MAINLINE - (AVE 21)	SHARON BLVD & E ST	LAYOUT	SHEET 2 OF 2
49		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	GOLDEN STATE BLVD AT AVENUE 20 AND 20 1/2	LAYOUT	STA 100+00 TO STA 146+50.21
50		UPRR/SR99 MAINLINE - (AVE 21)	ACCESS ROAD	LAYOUT AND PROFILE	STA 50+00 TO 64+49.40, STA 138+43.28
51		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	MASA ST AND ROAD 22 - ALT 1	LAYOUT	SHEET 1 OF 1
51		UPRR/SR99 MAINLINE/MERCED - (AVE 21)	MASA ST AND AVENUE 20 1/2 - ALT 2	LAYOUT	SHEET 1 OF 1
52		UPRR/SR99 MERCED - (AVE 21)	FAIRMEAD BLVD	LAYOUT	SHEET 1 OF 5
52		UPRR/SR99 MERCED - (AVE 21)	FAIRMEAD BLVD	LAYOUT	SHEET 2 OF 5
52		UPRR/SR99 MERCED - (AVE 21)	FAIRMEAD BLVD	LAYOUT	SHEET 3 OF 5
52		UPRR/SR99 MERCED - (AVE 21)	FAIRMEAD BLVD	LAYOUT	SHEET 4 OF 5
52		UPRR/SR99 MERCED - (AVE 21)	FAIRMEAD BLVD	LAYOUT	SHEET 5 OF 5
53	CR9021-B	UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 1 OF 8
53	CR9022-B	UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 8
53	CR9023-B	UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 3 OF 8
53	CR9024-B	UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 4 OF 8
53		UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 5 OF 8
53		UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 6 OF 8
53		UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 7 OF 8
53		UPRR/SR99 MERCED - (AVE 21)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 8 OF 8
54		UPRR/SR99 MAINLINE/WYE - (AVE 21)	ROAD 15 1/2 & NORTH FRONTAGE ROAD	LAYOUT	STA 63+99.89 TO STA 77+00
54		UPRR/SR99 MAINLINE/WYE - (AVE 21)	ROAD 15 1/2 & AVENUE 20 1/2	LAYOUT	
54		UPRR/SR99 MAINLINE/WYE - (AVE 21)	AVENUE 20 1/2	LAYOUT	
54		UPRR/SR99 MAINLINE/WYE - (AVE 21)	NORTH & SOUTH FRONTAGE ROAD AVENUE 21	LAYOUT	STA 77+00 TO STA 135+00
54		UPRR/SR99 MAINLINE/WYE - (AVE 21)	NORTH & SOUTH FRONTAGE ROAD AVENUE 21	LAYOUT	STA 135+00 TO STA 165+00
54		UPRR/SR99 MAINLINE/WYE - (AVE 21)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 165+00 TO STA 225+00, 98+00 & 148+37.86
56		UPRR/SR99 MAINLINE/WYE - (AVE 21)	ROAD 18	LAYOUT	STA 98+00 TO STA 117+41
55		UPRR/SR99 MAINLINE - (AVE 21)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 225+00 TO 280 & STA 148+37.86 TO 203+63.4
55		UPRR/SR99 MAINLINE - (AVE 21)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 280+00 TO 287+51 & STA 203+63.43 TO 258+
55		UPRR/SR99 MAINLINE - (AVE 21)	NORTH & SOUTH FRONTAGE ROAD	LAYOUT	STA 258+89 TO STA 265+65
55		. ,	NORTH & SOUTH FRONTAGE ROAD NORTH FRONTAGE ROAD AVENUE 21	LAYOUT	31A ZUOTOS IU 31A ZUUTUU
		UPRR/SR99 MAINLINE - (AVE 21)			
55		UPRR/SR99 MAINLINE - (AVE 21)	AVENUE 21	LAYOUT	
85		UPRR/SR99 MERCED - (AVE 21)	HEALY ROAD	LAYOUT	
86	CR9042-B	UPRR/SR99 MERCED - (AVE 21)	GERARD AVENUE/CALTRANS FRONTAGE ROAD	LAYOUT	
	05: 170:	DUCE HAIN LINE	AVENUE OA (CRAFO (AVENUE O)	AVENUE OO CONNECTOR TO BOAR 44	DI ANI AND DOGGLE
		BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	AVENUE 22 CONNECTOR TO ROAD 11	PLAN AND PROFILE
		BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	AVENUE 22 CONNECTOR TO ROAD 11	PLAN AND PROFILE
	CR1483A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	AVENUE 21	PLAN AND PROFILE

3/27							DESIGNED BY R. LI	T
_							DRAWN BY A. TRINH	
eyesC							CHECKED BY A. SILVER	
# H H							IN CHARGE A. BOONE DATE	
I NSE	REV	DATE	BY	СНК	APP	DESCRIPTION	06/30/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Socramento, CA 9581
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99-(AVE 21)
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO. HSRO6-007
DRAWING NO.
B8990-B
SCALE
NONE
SHEET NO. ### OF ###

MISCELLANEOUS

ALIGN	MENT
ALIGN	HORIZONTAL
BC EC PC PCC PI POB POC POT PRC PT R V, DS	BEGINNING OF CURVE END OF CURVE POINT OF CURVE POINT OF COMPOUNT CURVES POINT OF INTERSECTION OF TWO TANGENTS POINT OF BEGINNING POINT ON CURVE POINT OF ENDING POINT ON TANGENT POINT OF TANGENT POINT OF TANGENCY RADIUS OF CURVATURE IN FEET DESIGN VELOCITY IN MILES PER HOUR
BVC EVC PVC PVI PVT VC	VERTICAL BEGIN OF VERTICAL CURVE END OF VERTICAL CURVE POINT OF VERTICAL CURVE (BEGINNING OF CURVE) POINT OF VERTICAL INTERSECTION (OF TANGENTS) POINT OF VERTICAL TANGENCY (ENDING OF CURVE) VERTICAL CURVE

	MISCELLANEOUS
ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
Œ.	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ ES	EQUATION EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH BOUND
NB No. NO.	NORTH BOUND NUMBER
No, NO NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
t: ED	C LANUADD

TOR TK	TOP OF RAIL TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER
	OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING OR EXISTING RIGHT-OF-WAY BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
G16	GAS LINE (16")
— TC ——	COMMUNICATION LINE
- —— W ——— ———	WATER LINE
—— FO —— ——	FIBER OPTIC LINE
——-Е————	ELECTRICAL LINE
×	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
—TC ——	TELEPHONE LINE
———— P12 ———	PETROLEUM LINE (12")
——— (OH) ———	OVERHEAD
	NORTH ARRROW
	PVI
	MBGR
-	DIRECTION OF TRAVEL
250	PROPOSED CONTOUR

						DESIGNED BY R. LI	Ī
						DRAWN BY A. TRINH	
						CHECKED BY A. SILVER	1
						IN CHARGE A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 06/30/2011	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION

STANDARD

TANGENT

TELEPHONE

(OH) OVERHEAD LINE (UG) UNDERGROUND LINE

STRUCT, STR STRUCTURE

STORM DRAIN

STD

SD

TEL

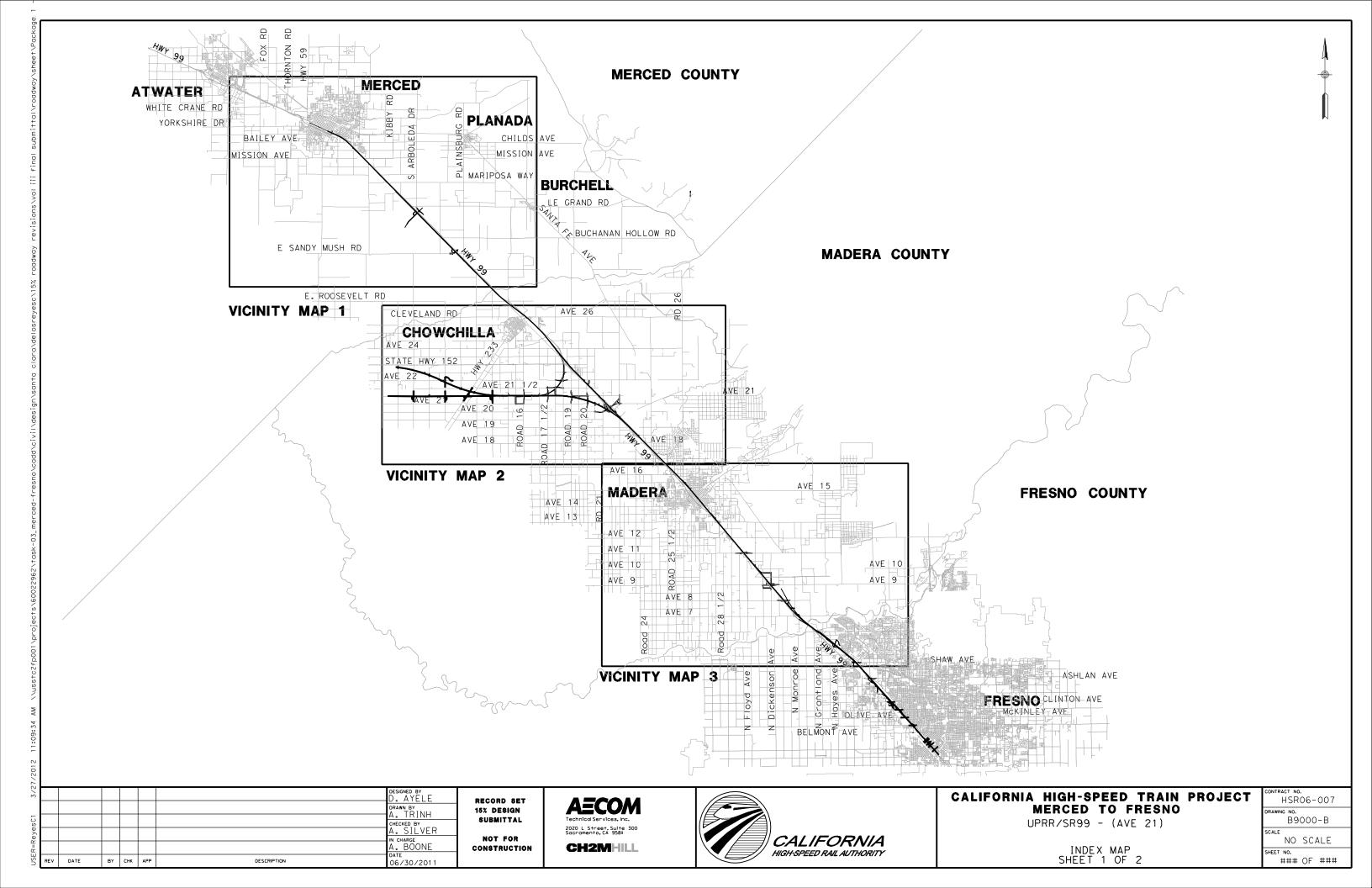
2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

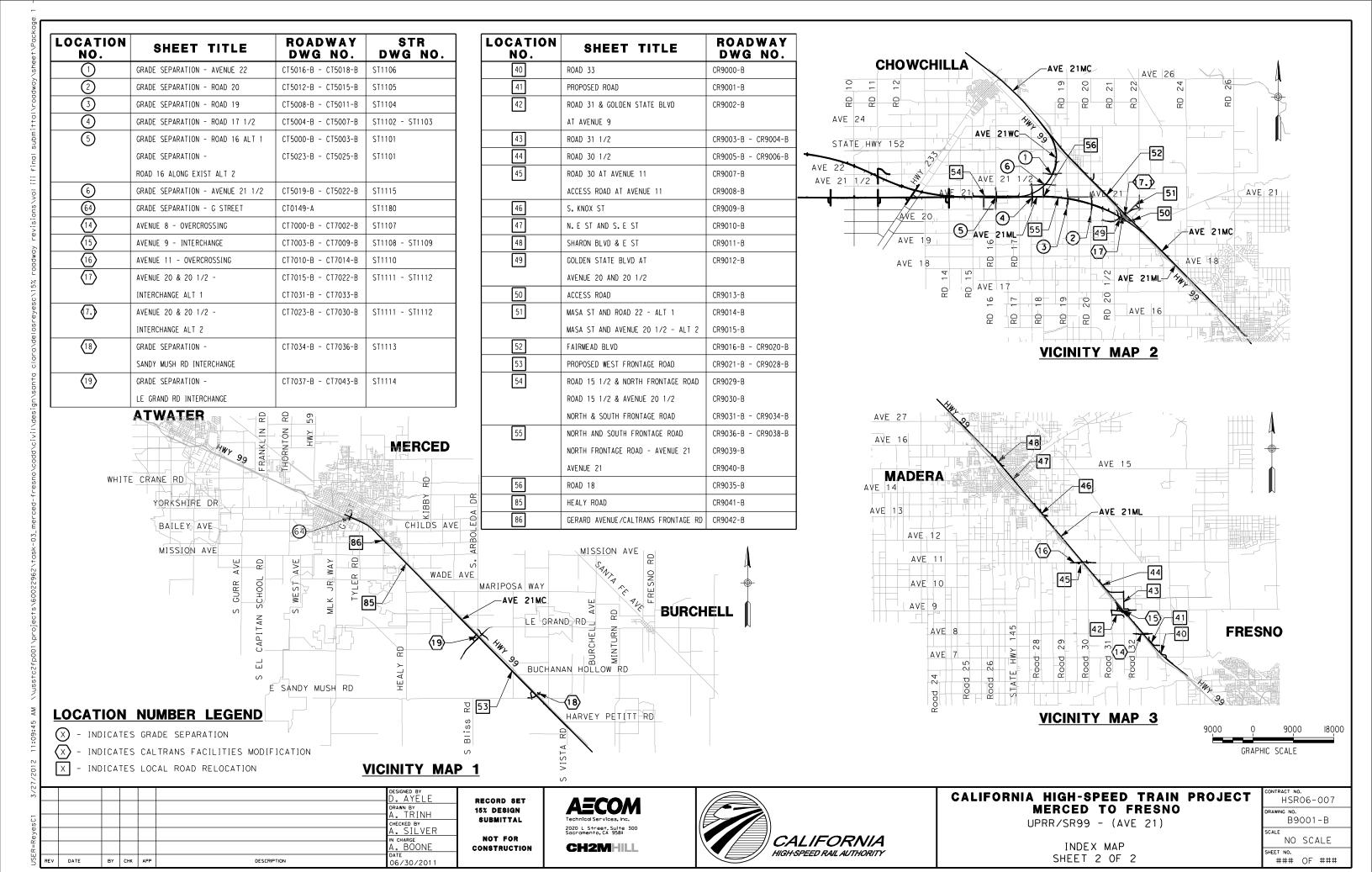


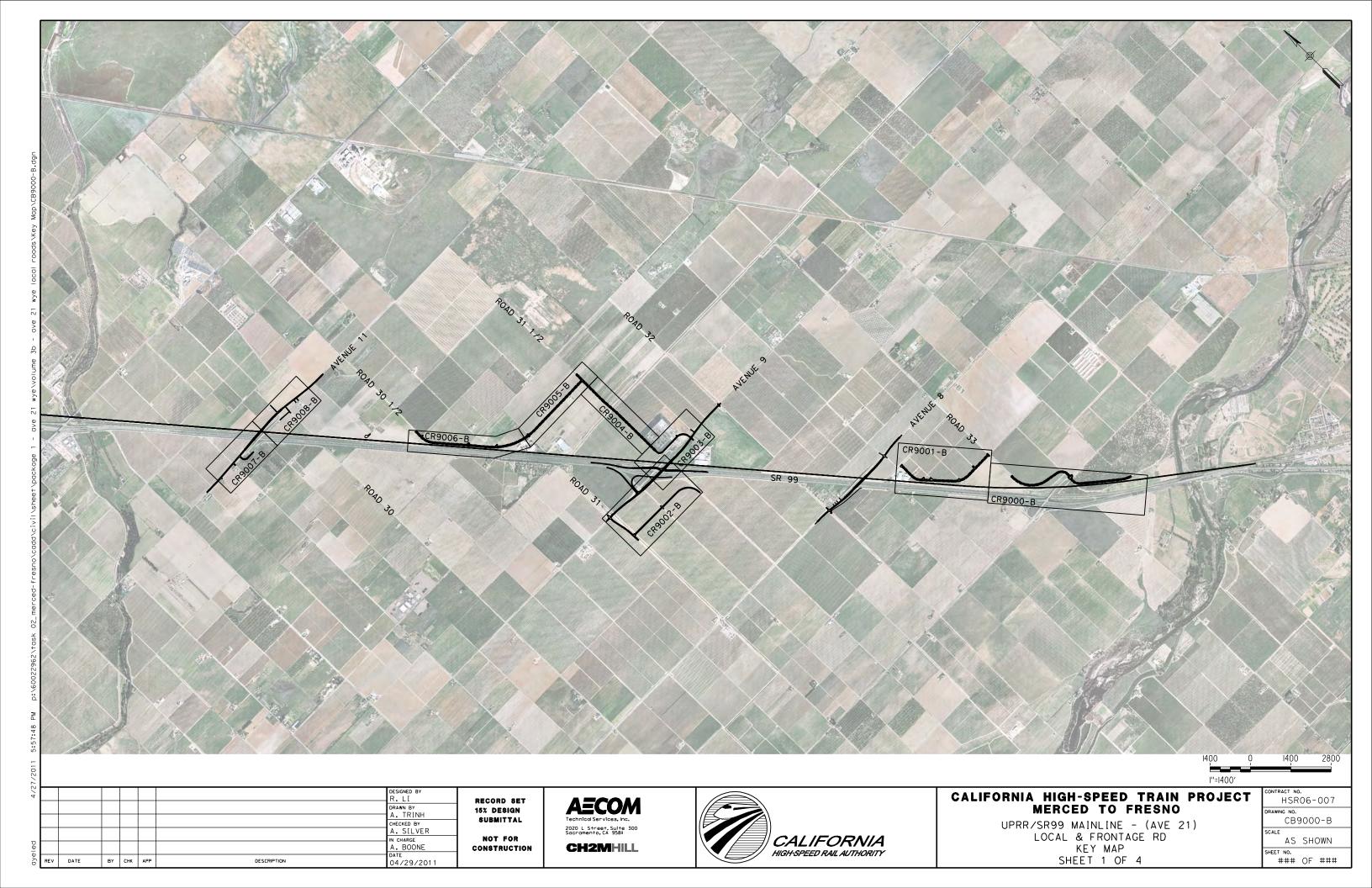
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

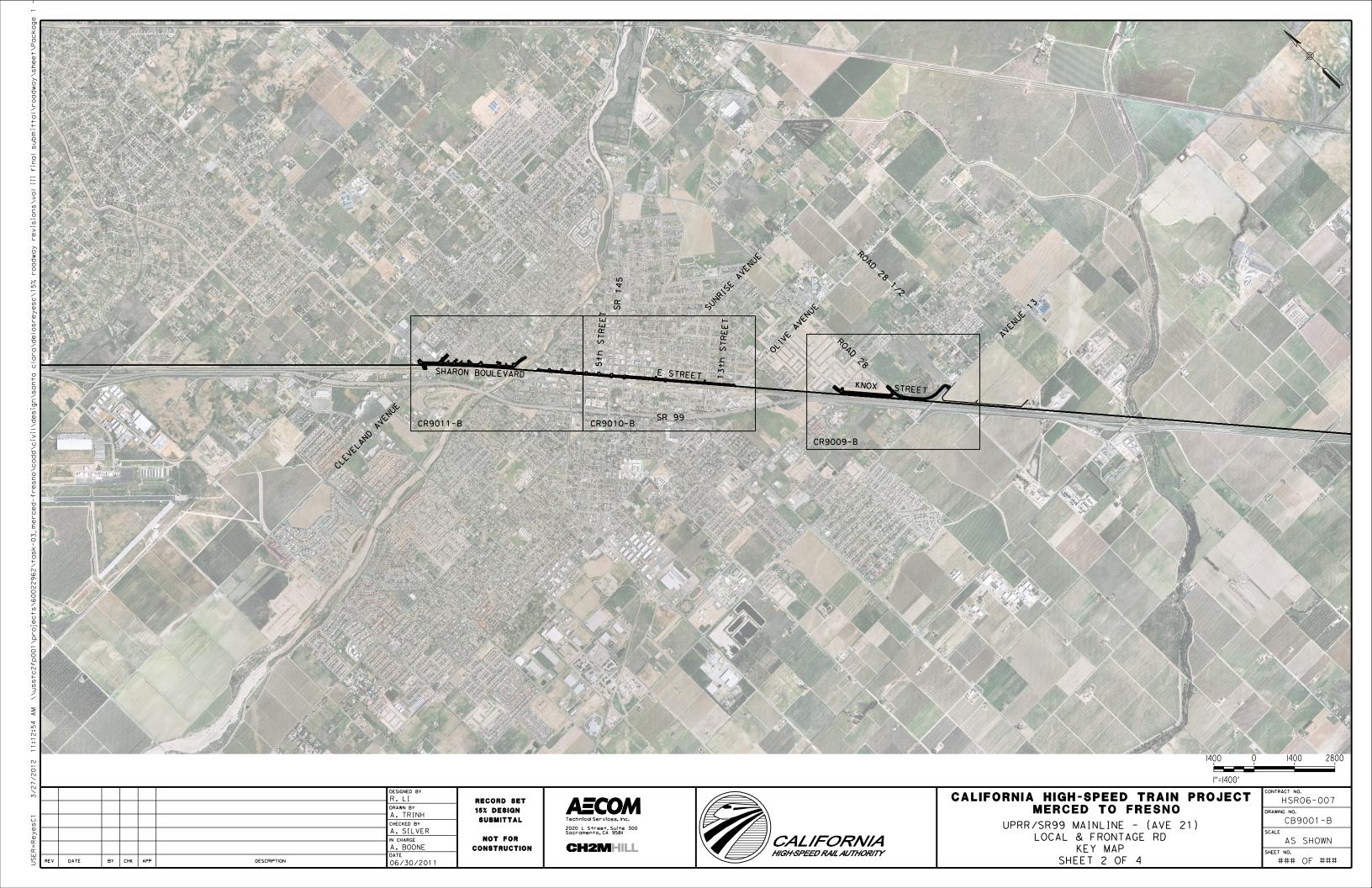
UPRR/SR99 - (AVE 21) GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES SHEET 1 OF 1

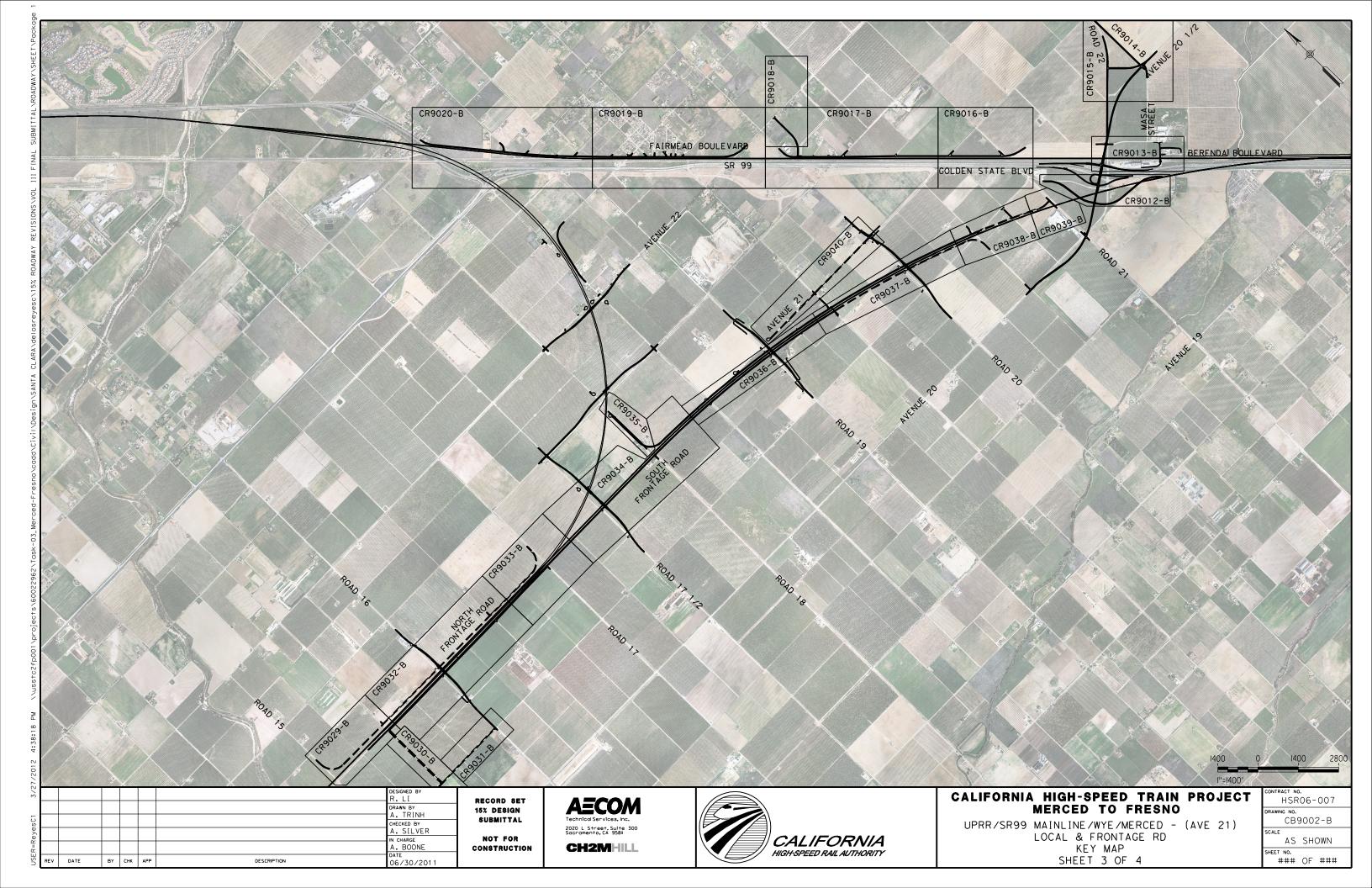
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DRAWING NO. B8991-B	
NO SCALE	
SHEET NO. ### OF ###	

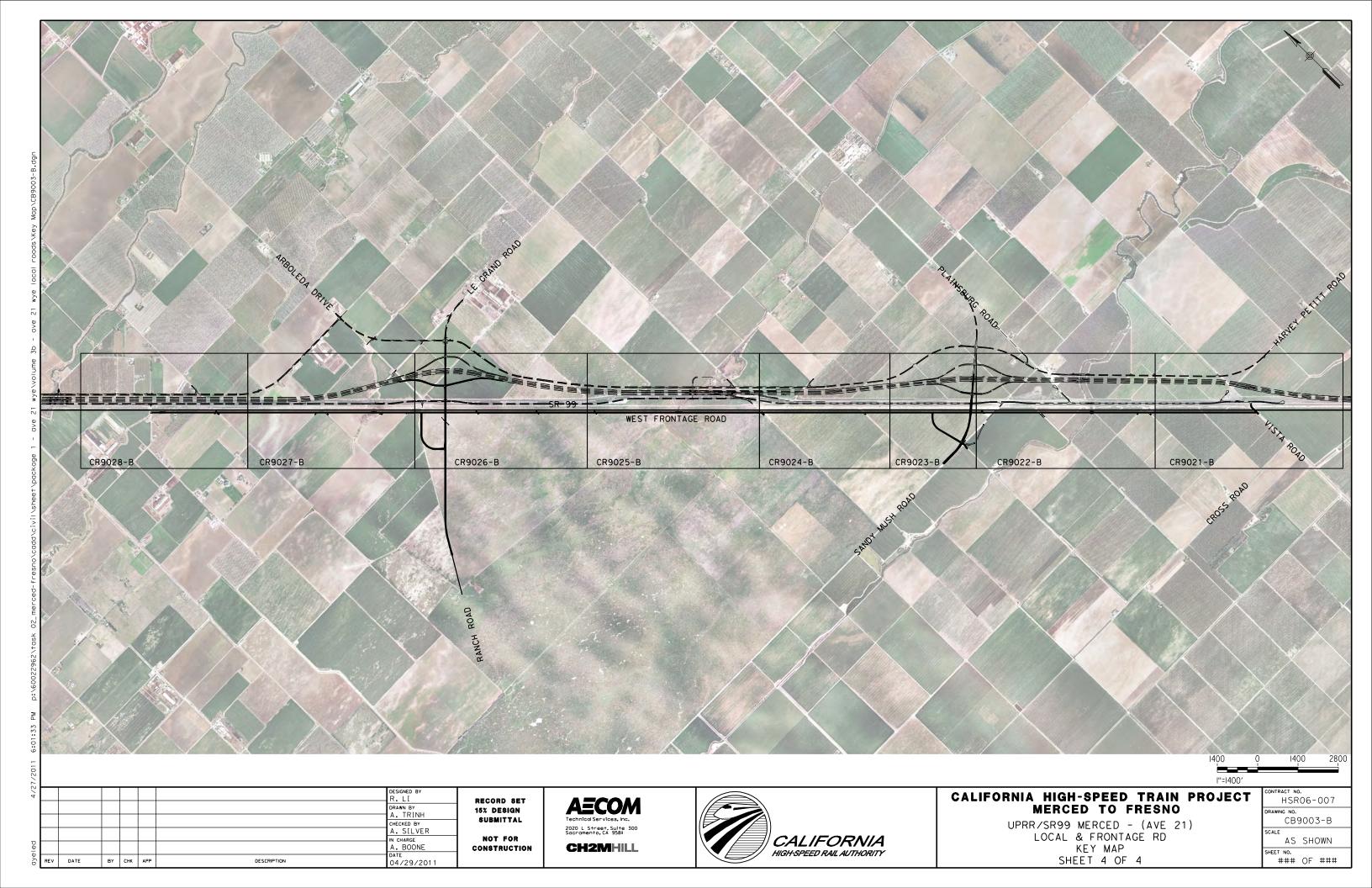


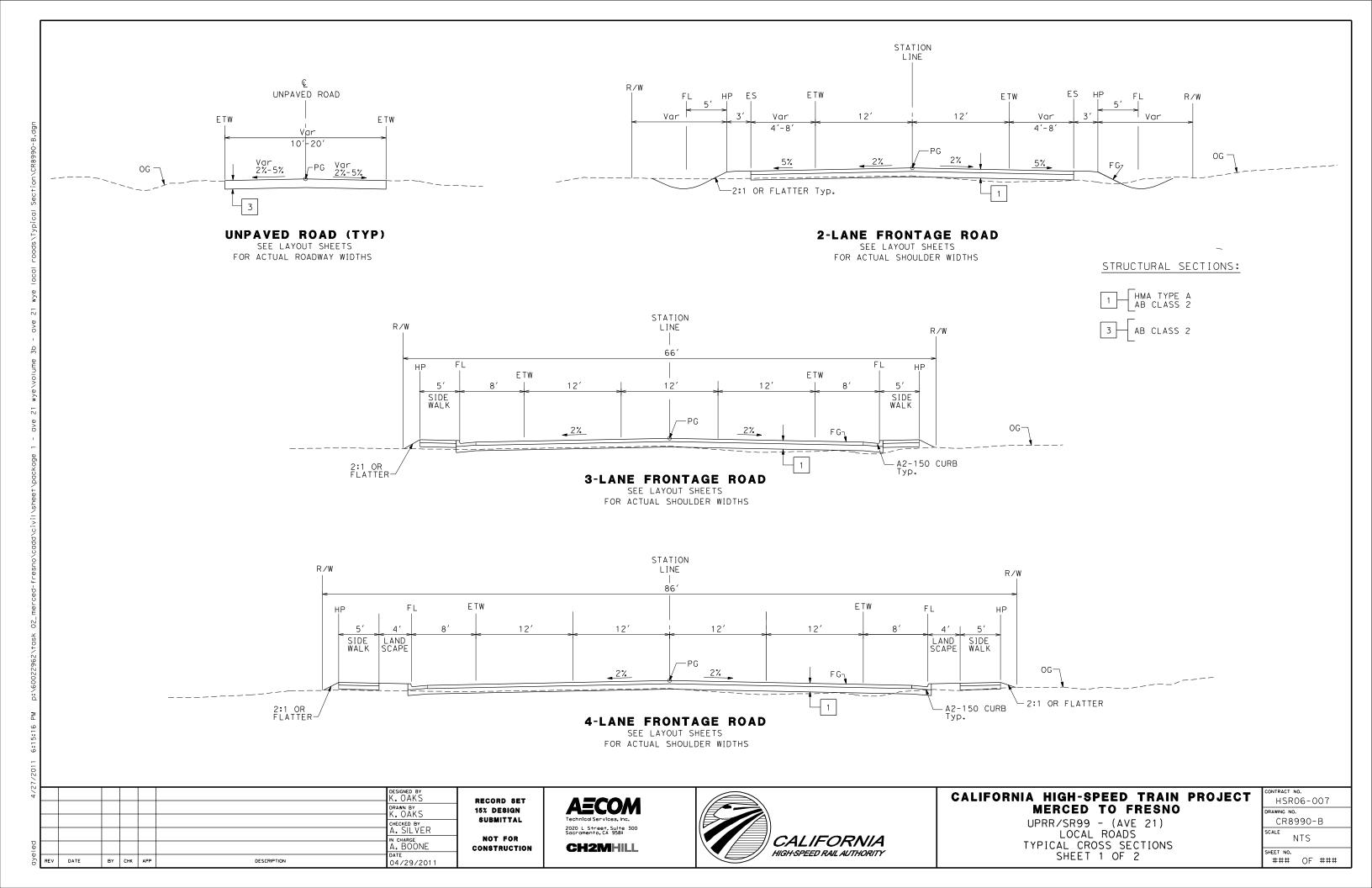


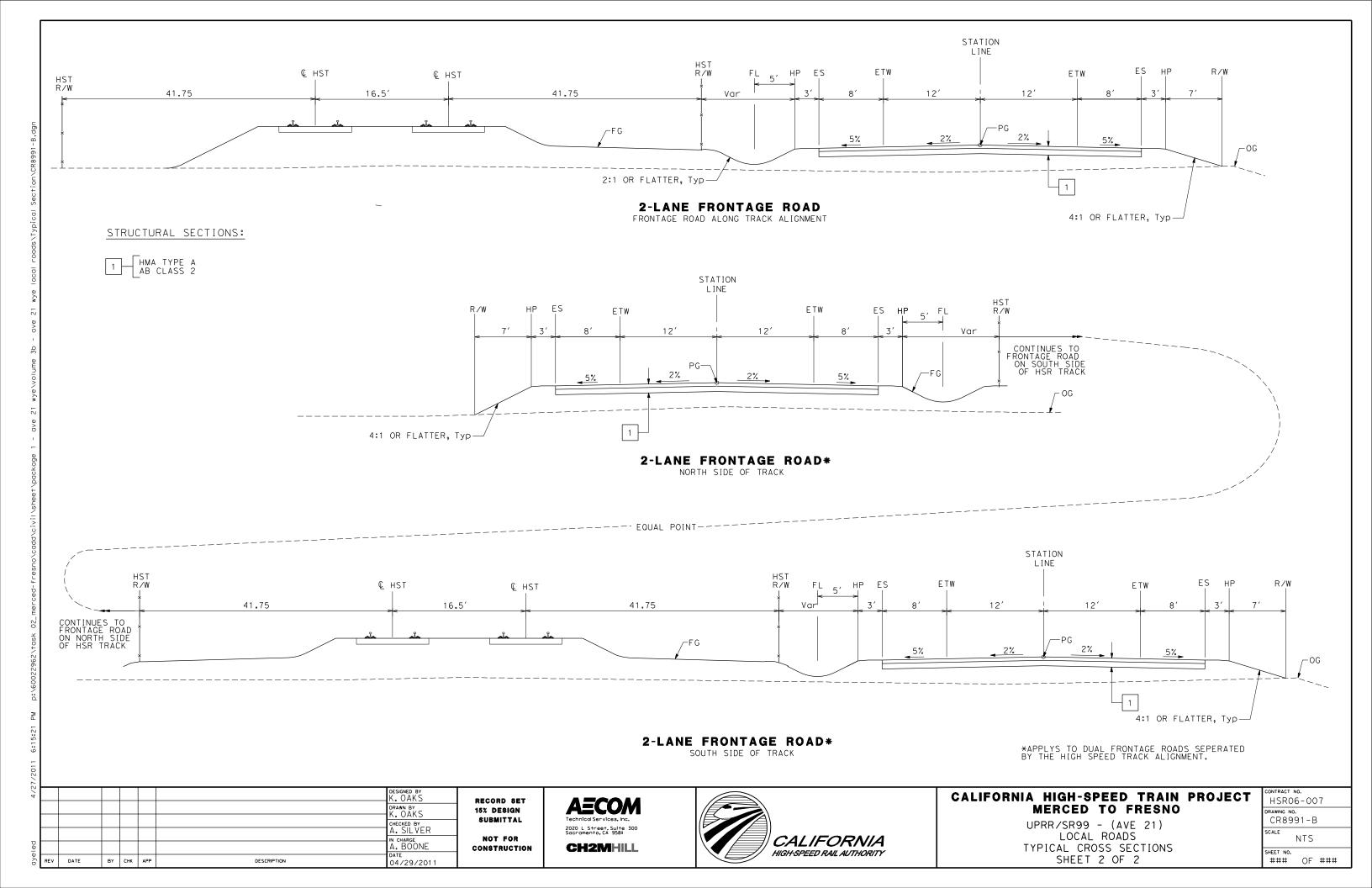


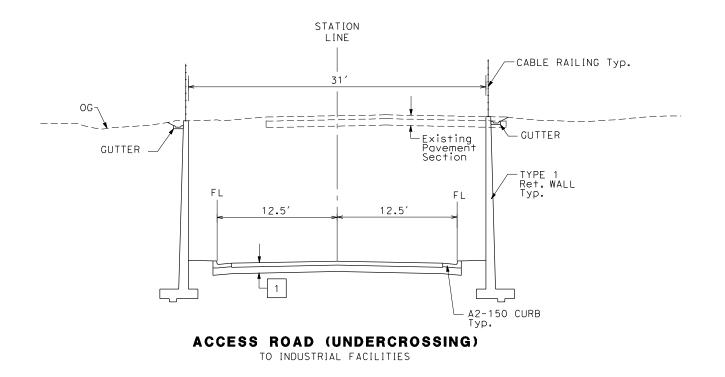






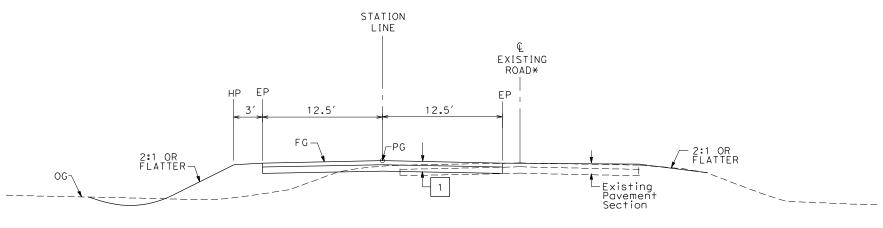






STRUCTURAL SECTIONS:

1 HMA TYPE A AB CLASS 2



ACCESS ROAD
TO INDUSTRIAL FACILITIES

* EXISTING ROAD LOCATION VARIES AND SHALL REMAIN OPEN DURING CONSTRUCTION. WHERE SHOWN ON THE PLAN CLOSE AND OBLITERATE EXISTING ROADWAY SUBSEQUENT TO CONSTRUCTION OF THE REALIGNED ROADWAY.

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A2, AVE 21 WYE:

NO.	STREET NAME			
1	SOUTH OF AVENUE	20/20.5	INTERCHANGE	

4/2							DESIGNED BY K. OAKS	,
							DRAWN BY K. OAKS	1
							CHECKED BY A. SILVER	
eq							IN CHARGE A. BOONE] _c
aye	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



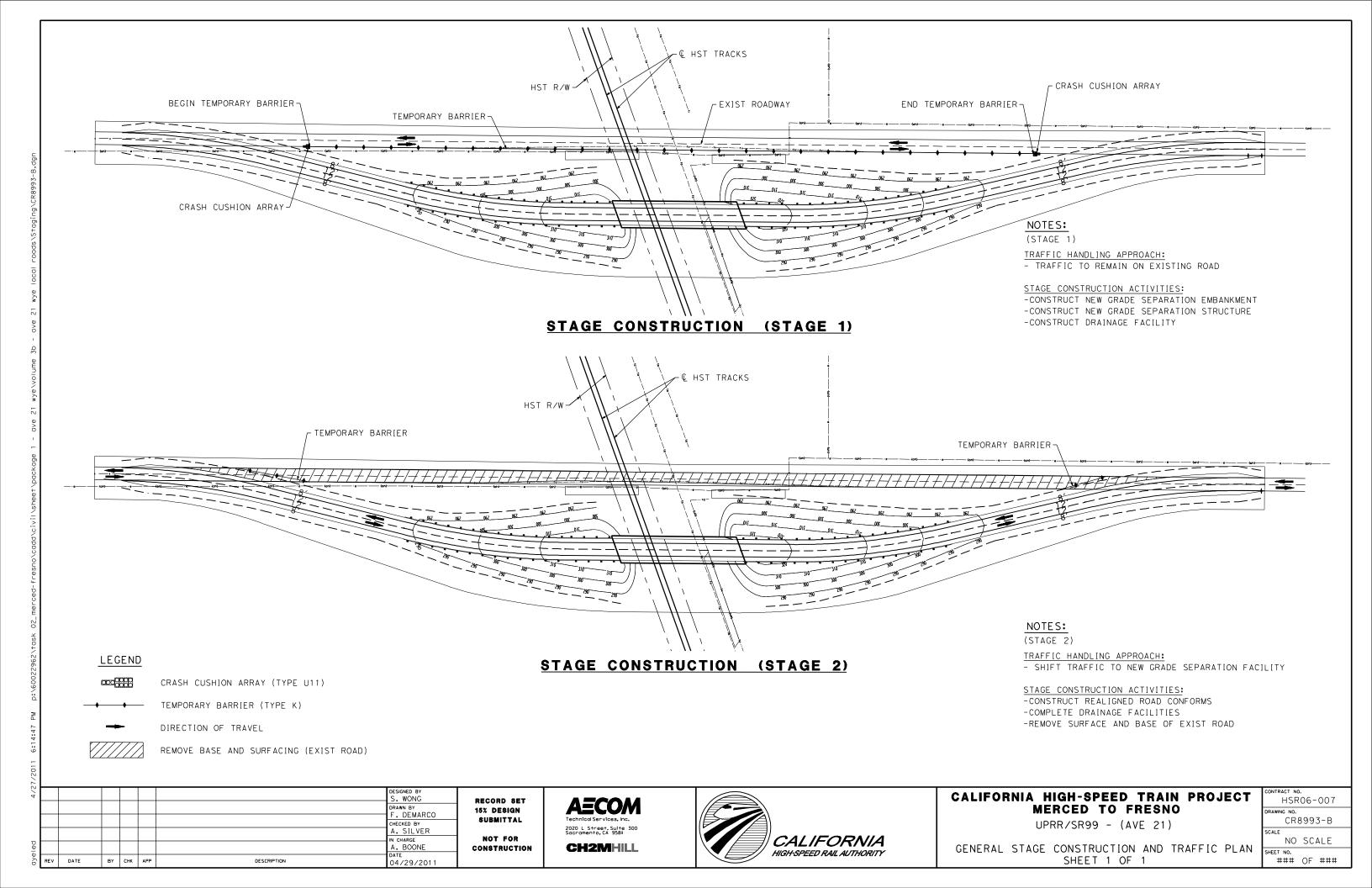
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

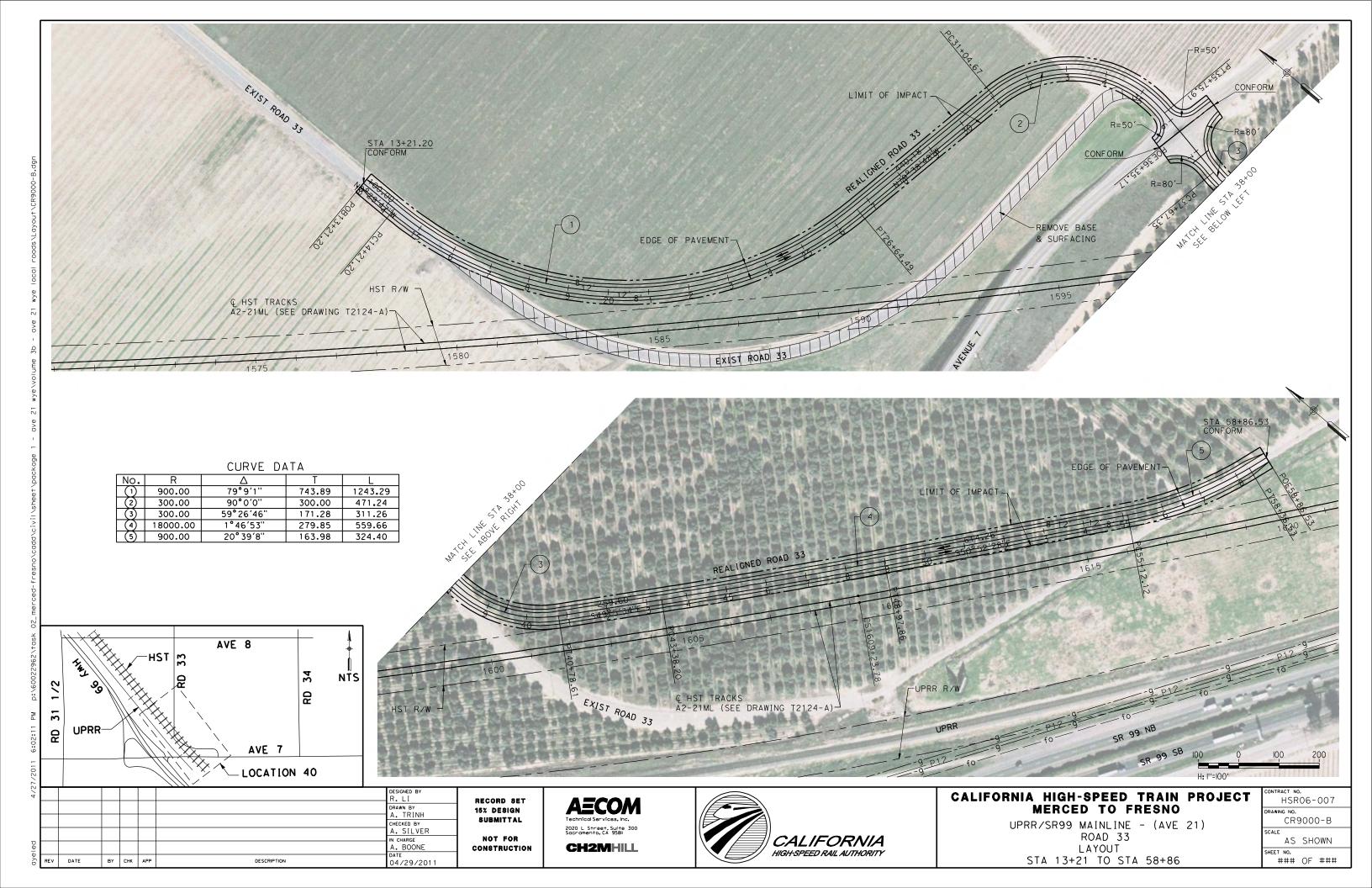
UPRR/SR99 - (AVE 21) DEPRESSED ACCESS ROAD TYPICAL CROSS SECTIONS SHEET 1 OF 1

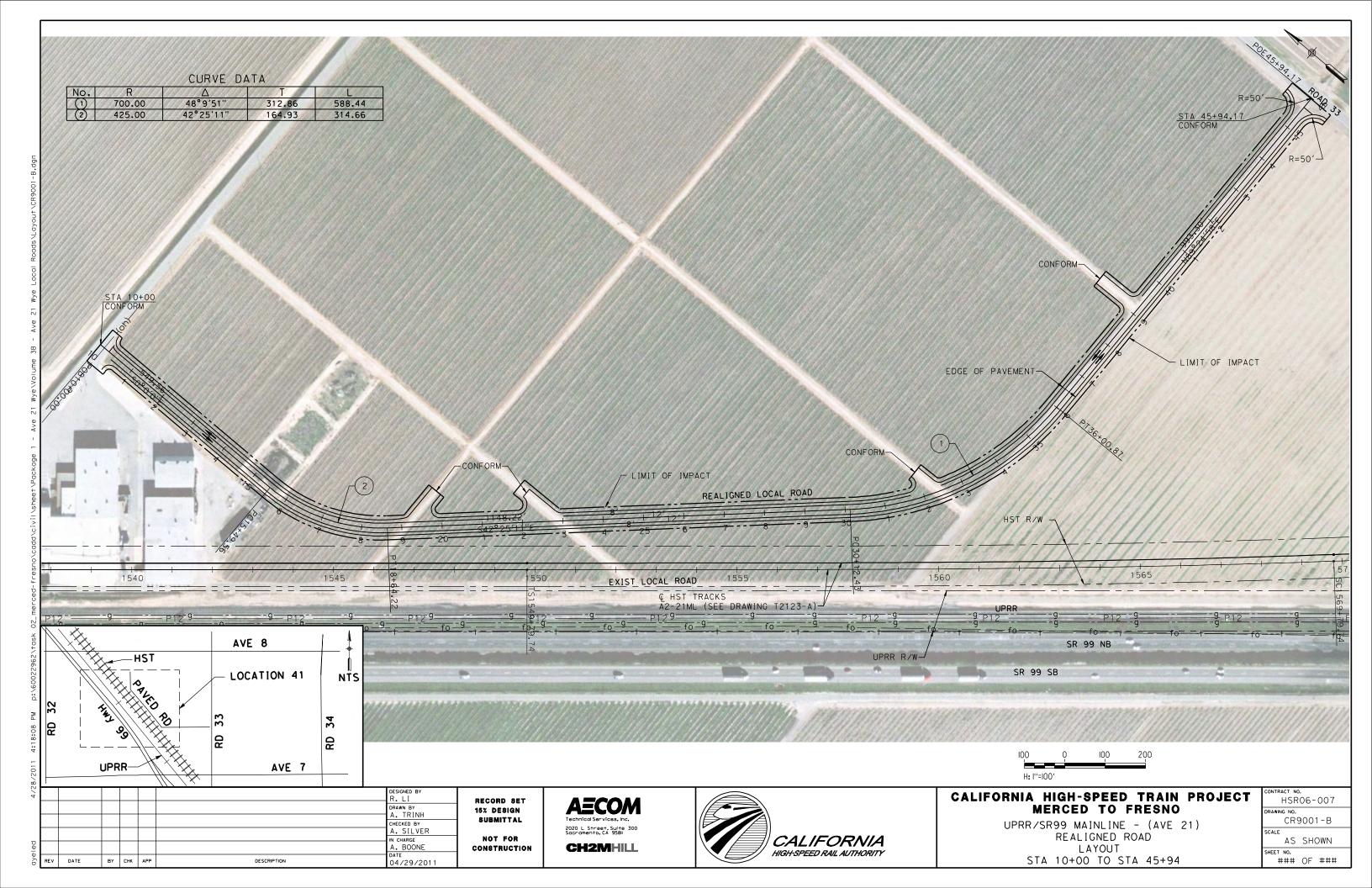
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HSR06-007
DRAWING NO.
CR8992-B

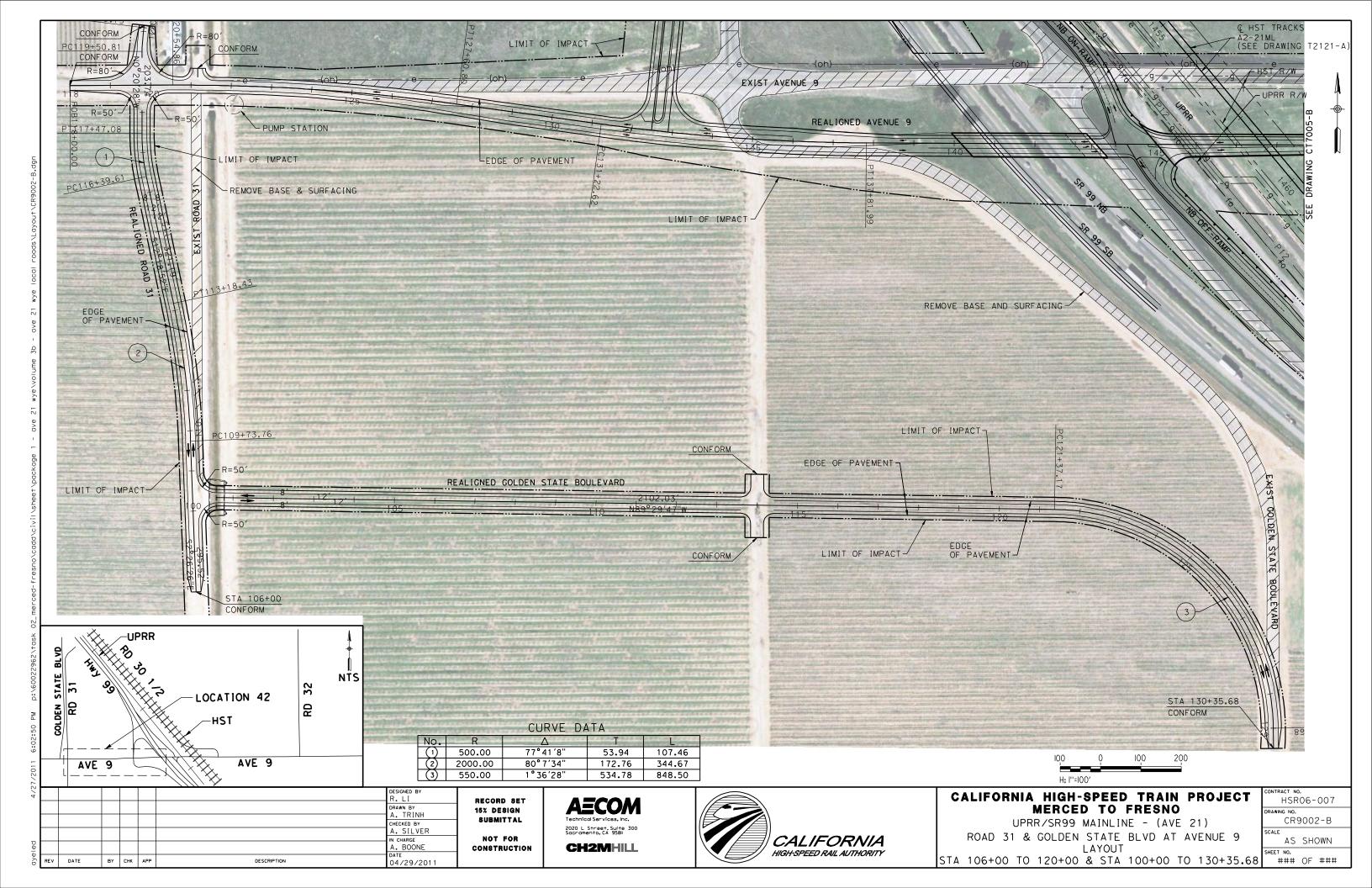
SCALE NTS

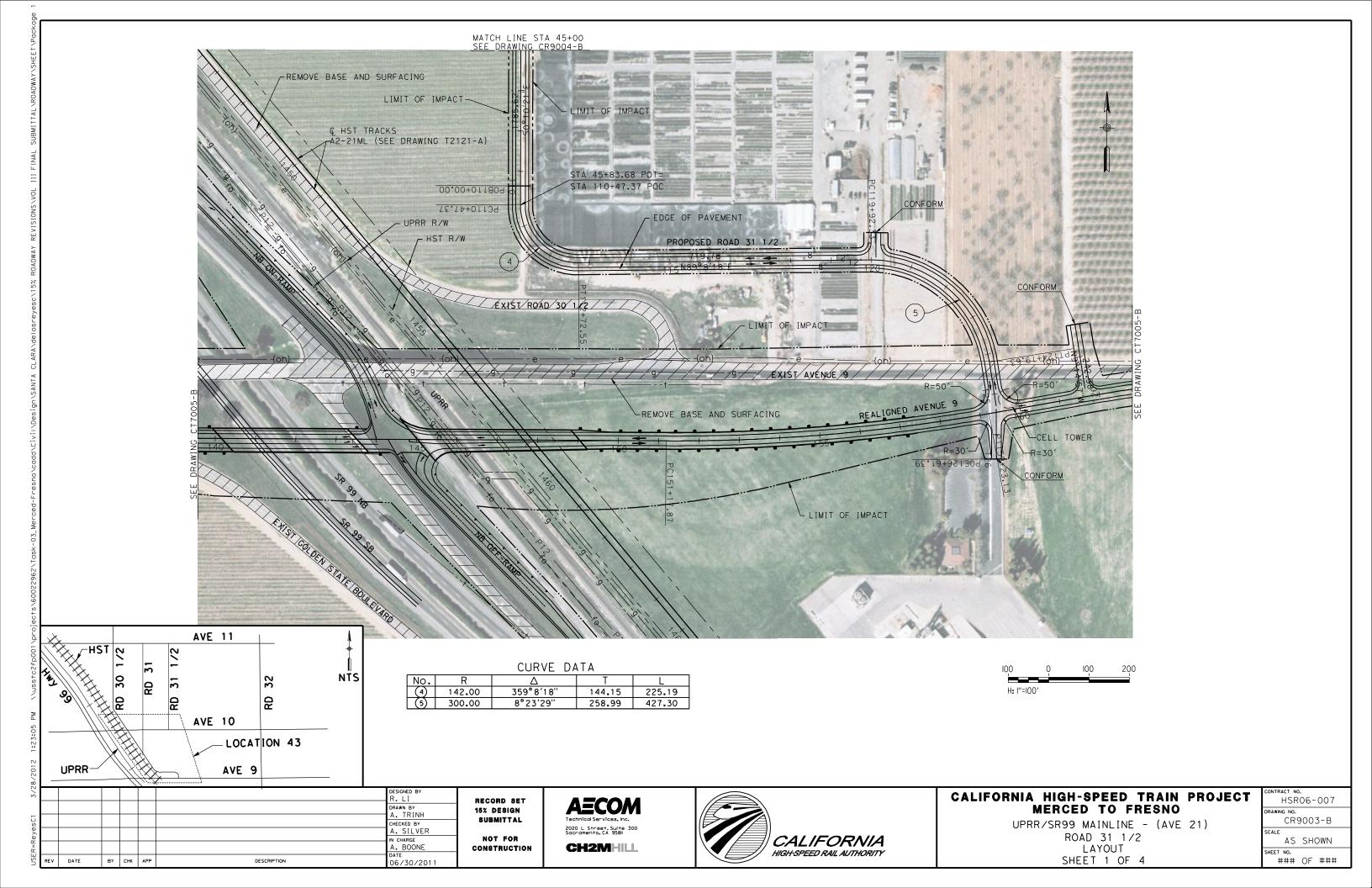
SHEET NO. ### OF ###











AS SHOWN

HEET NO. ### OF ###

LAYOUT

SHEET 2 OF 4

IN CHARGE A. BOONE DATE 04/29/2011

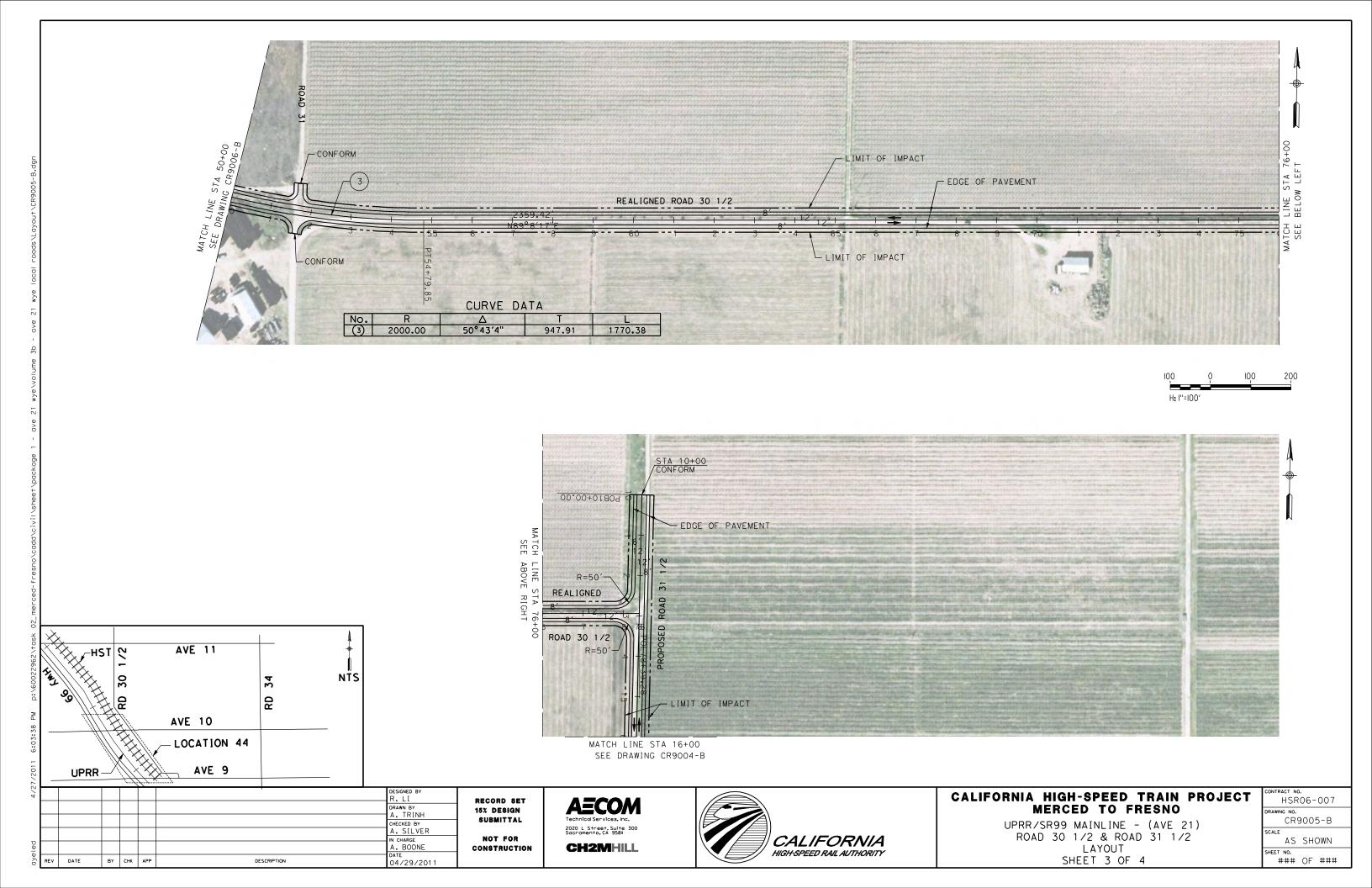
BY CHK APP

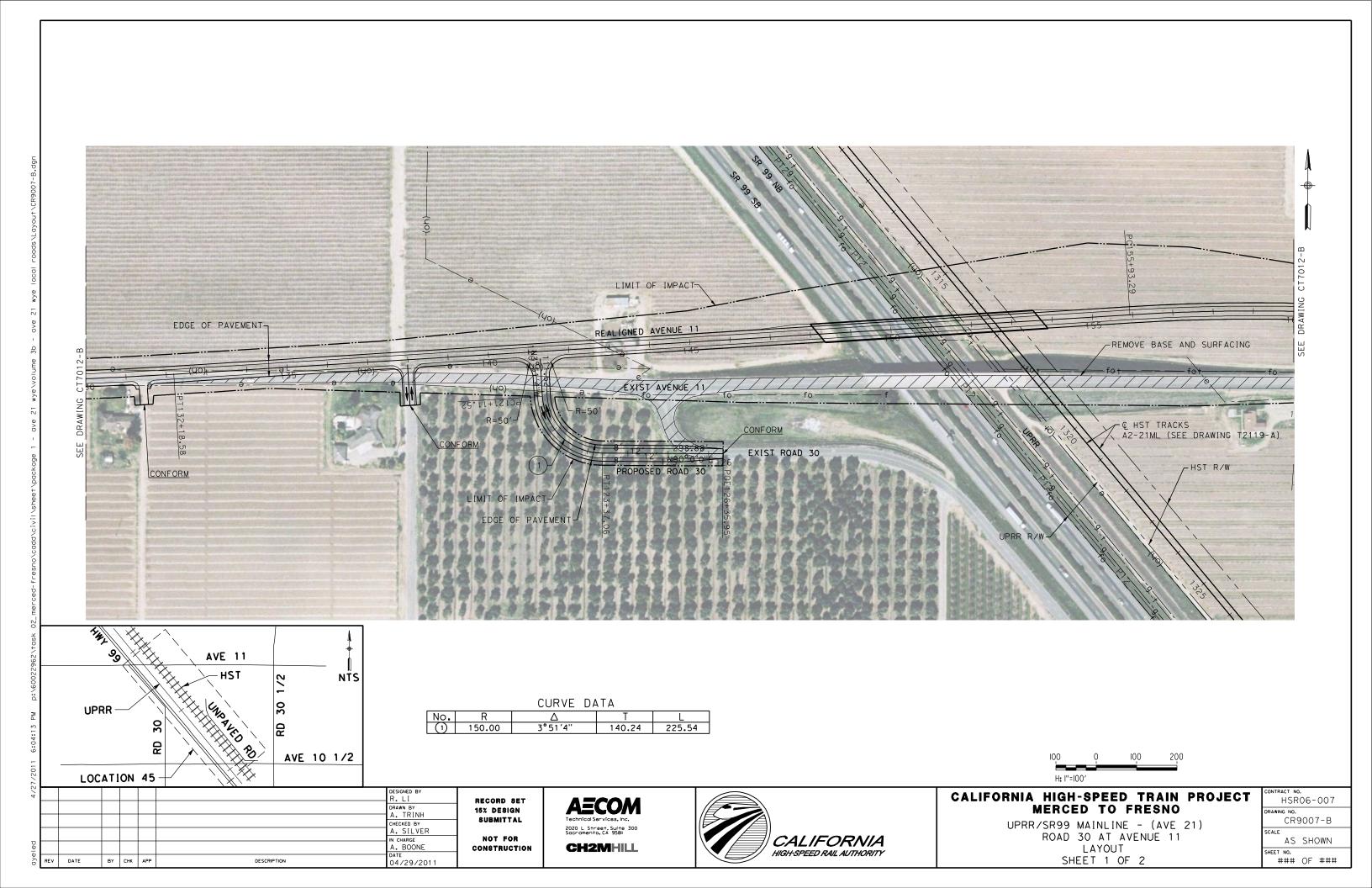
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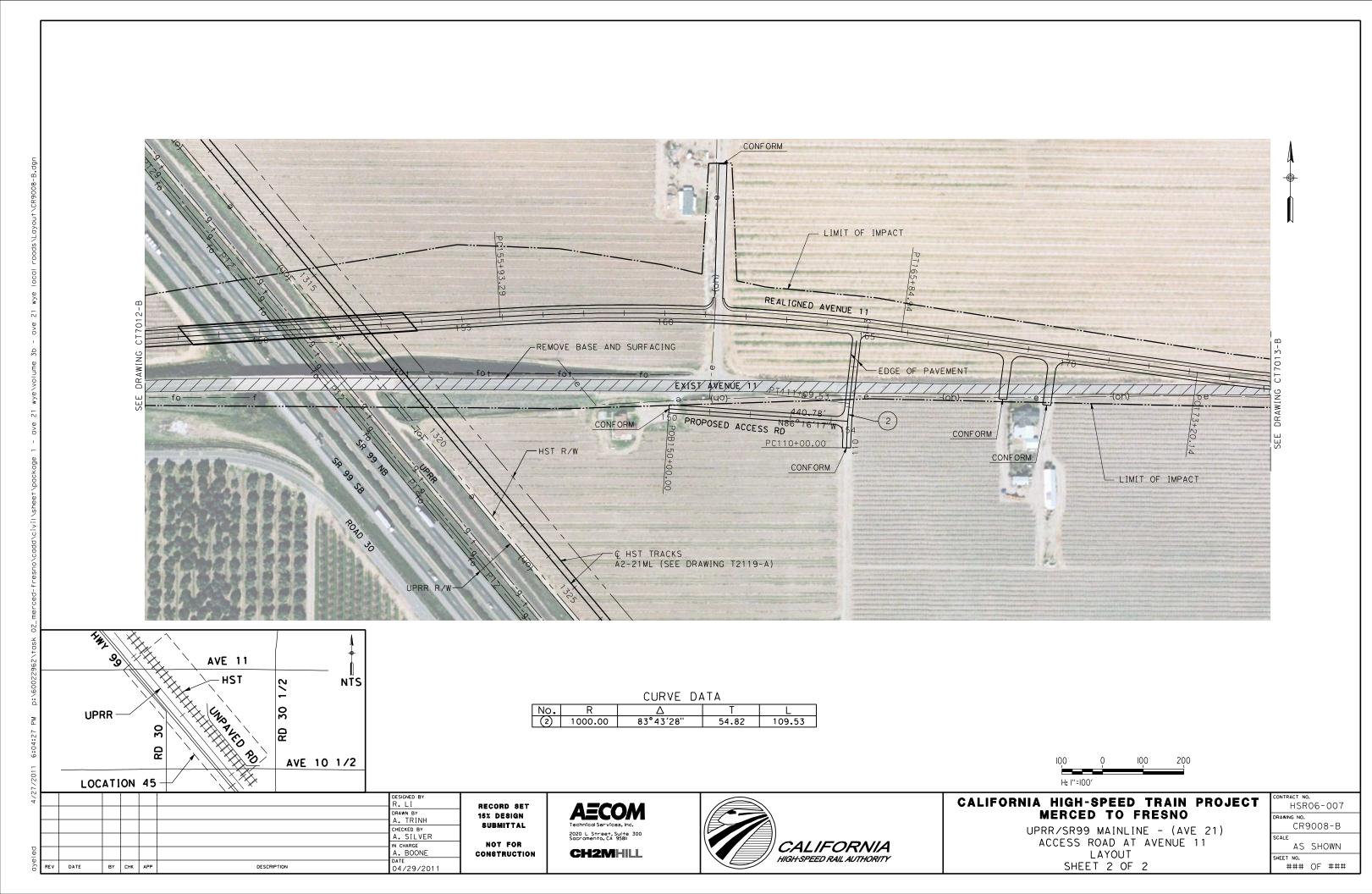
NOT FOR

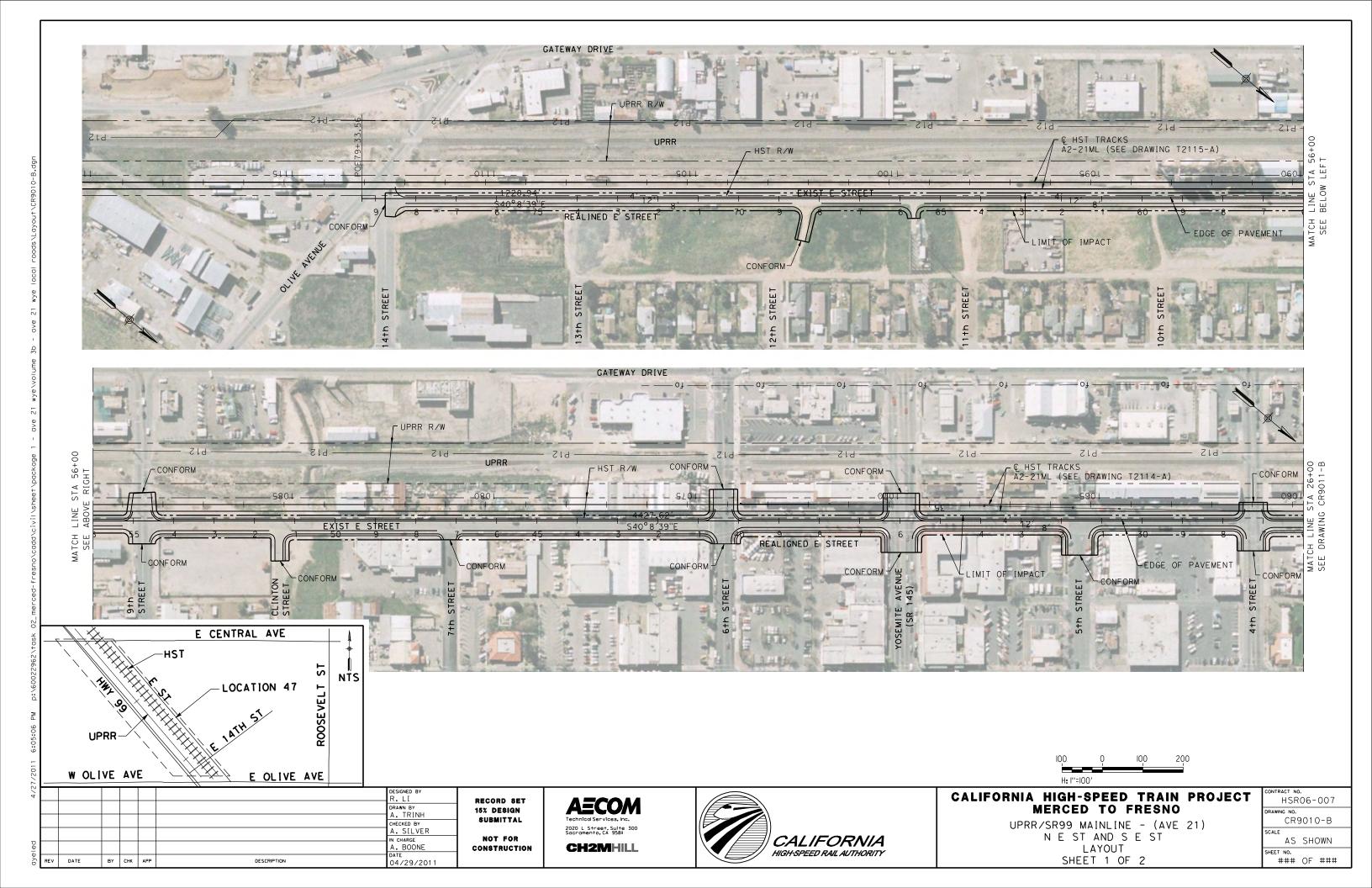
CONSTRUCTION

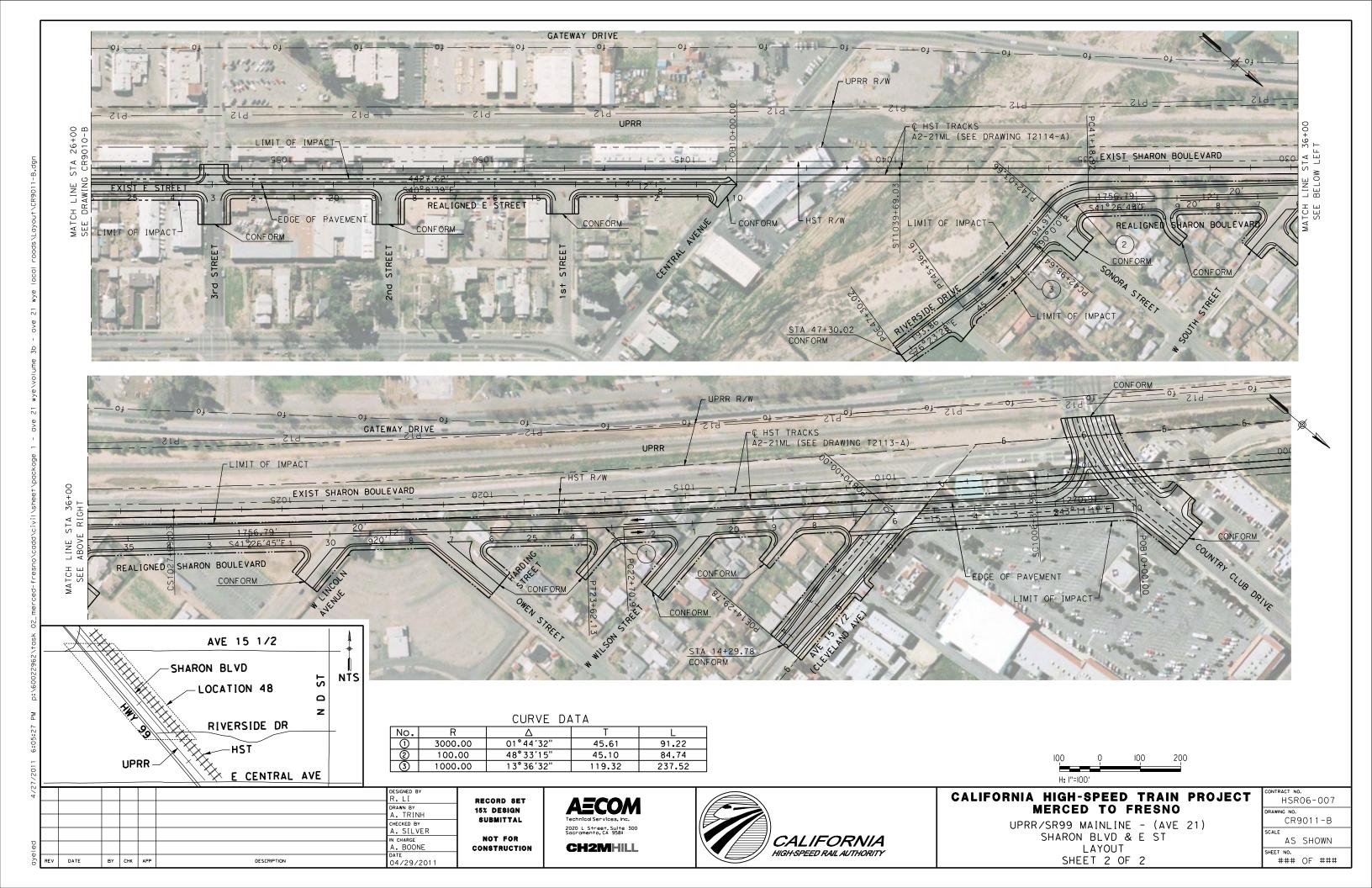
CH2MHILL

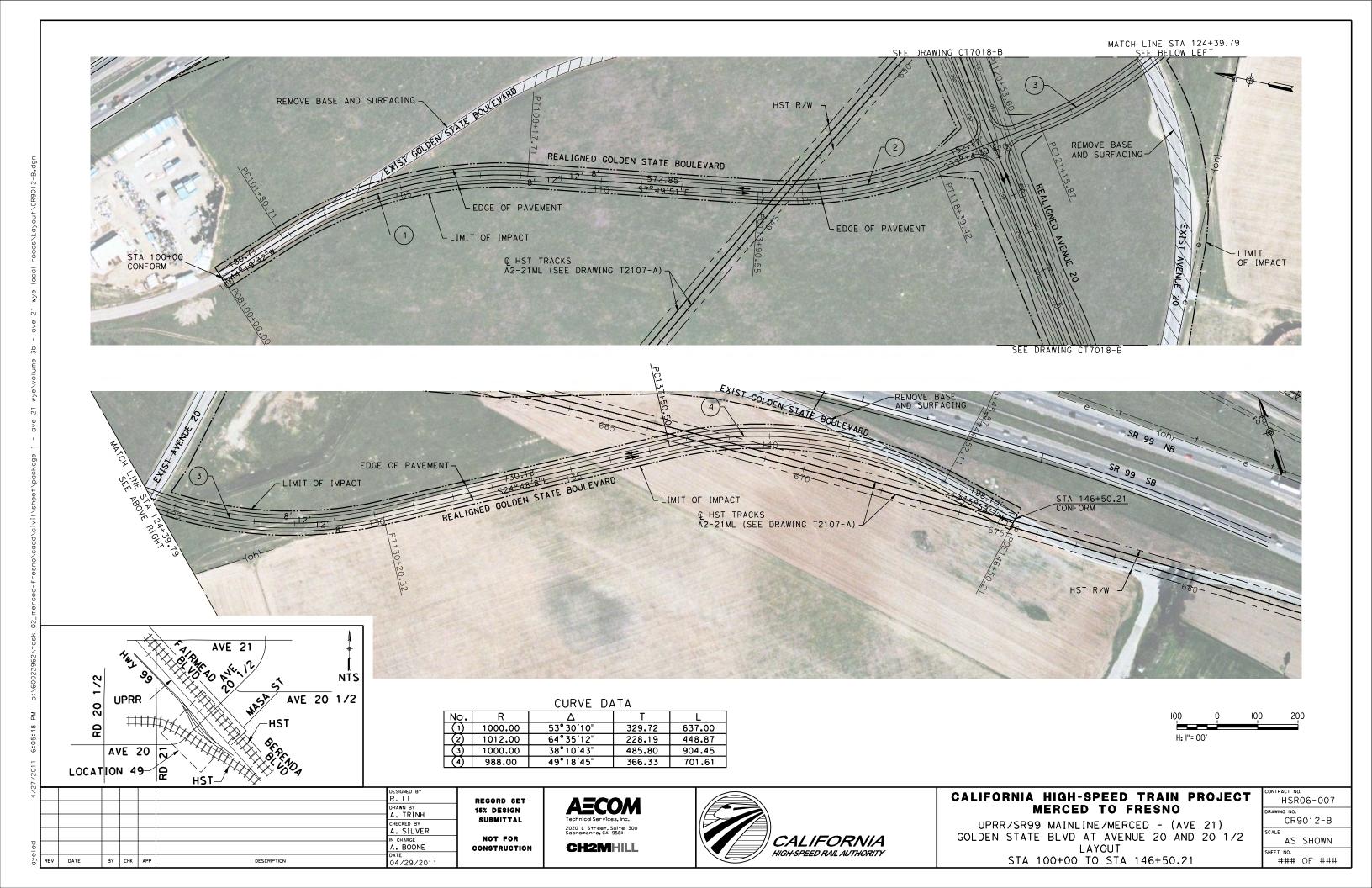


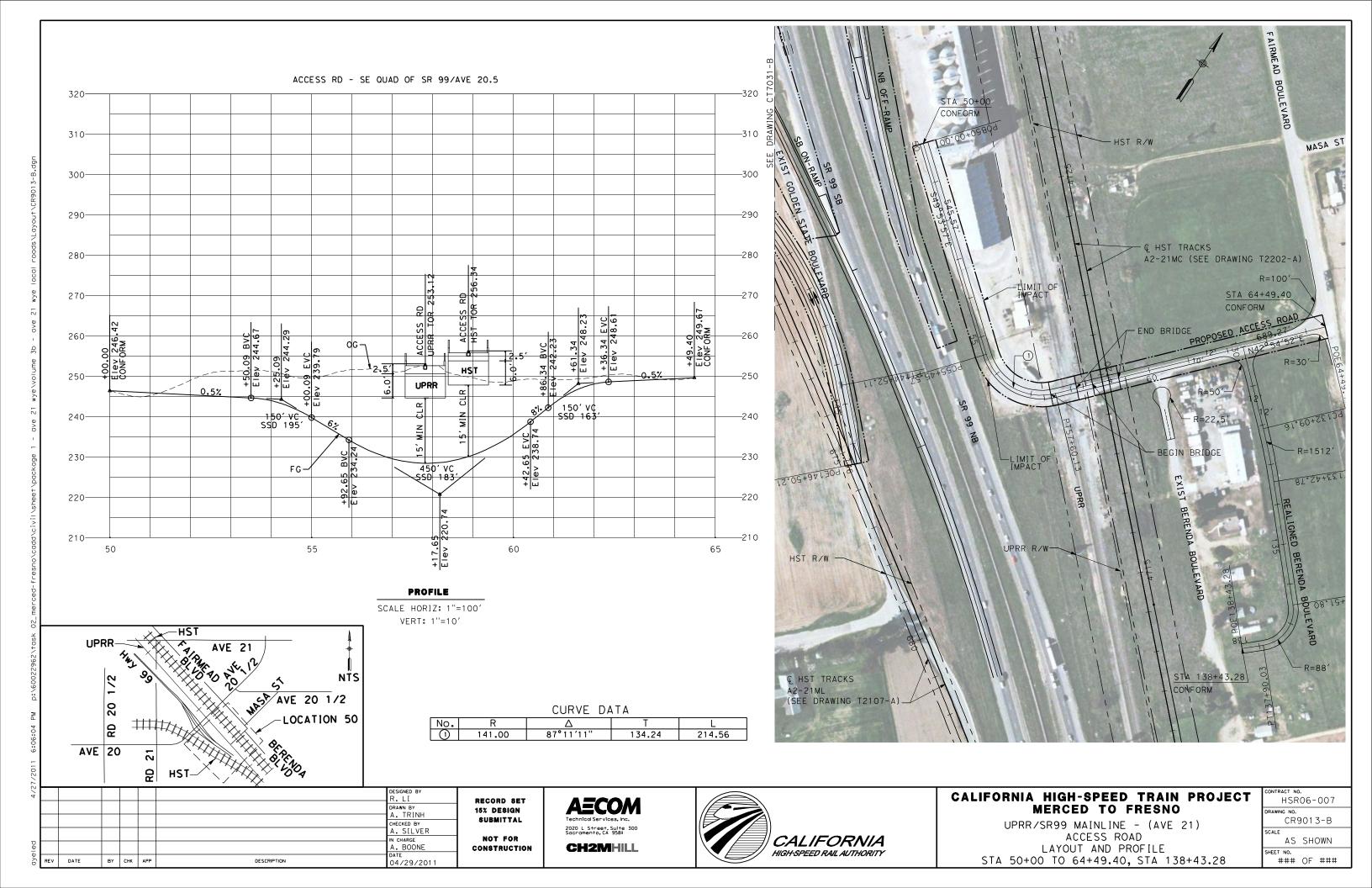


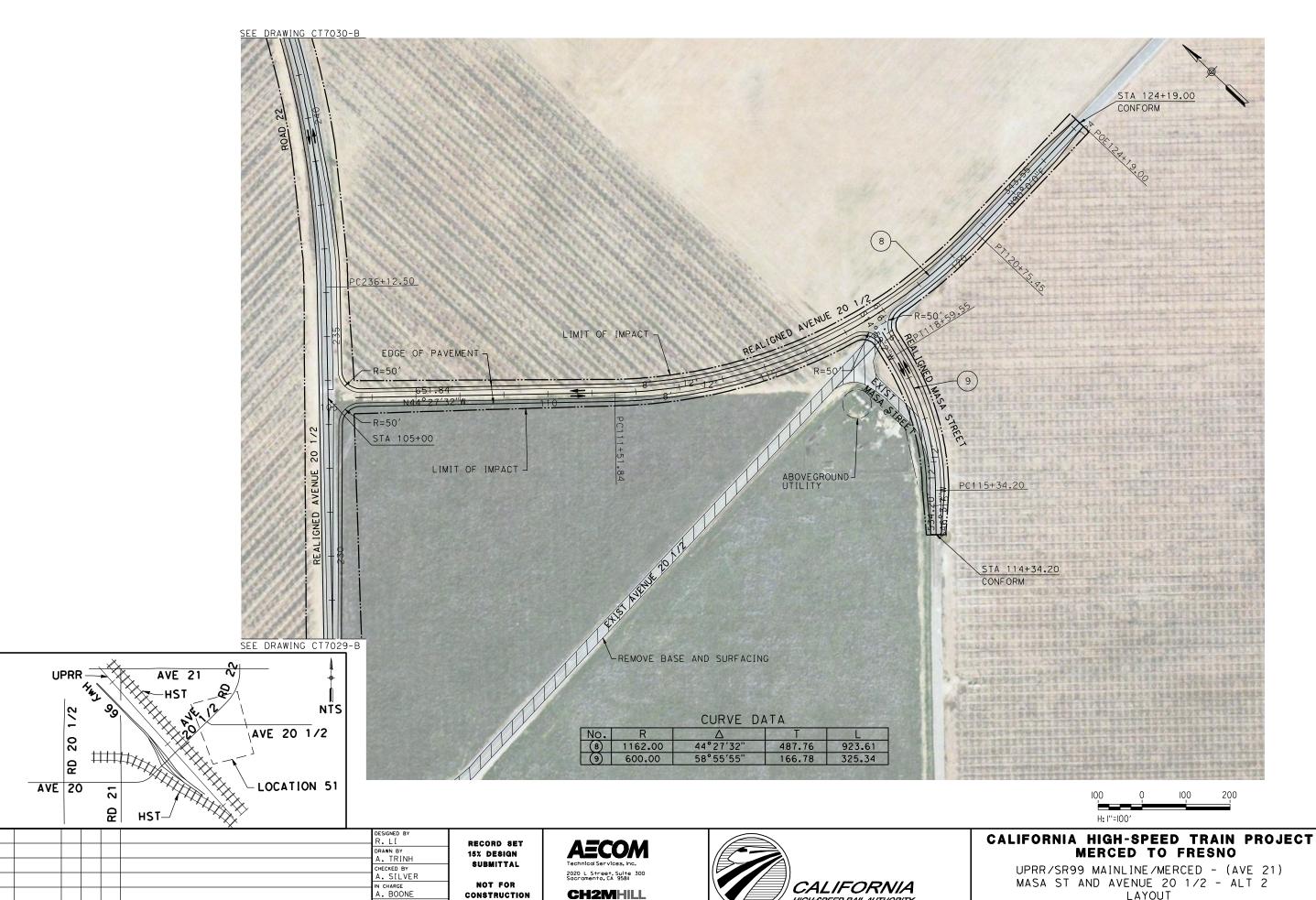












CONSTRUCTION

04/29/2011

BY CHK APP

DESCRIPTION

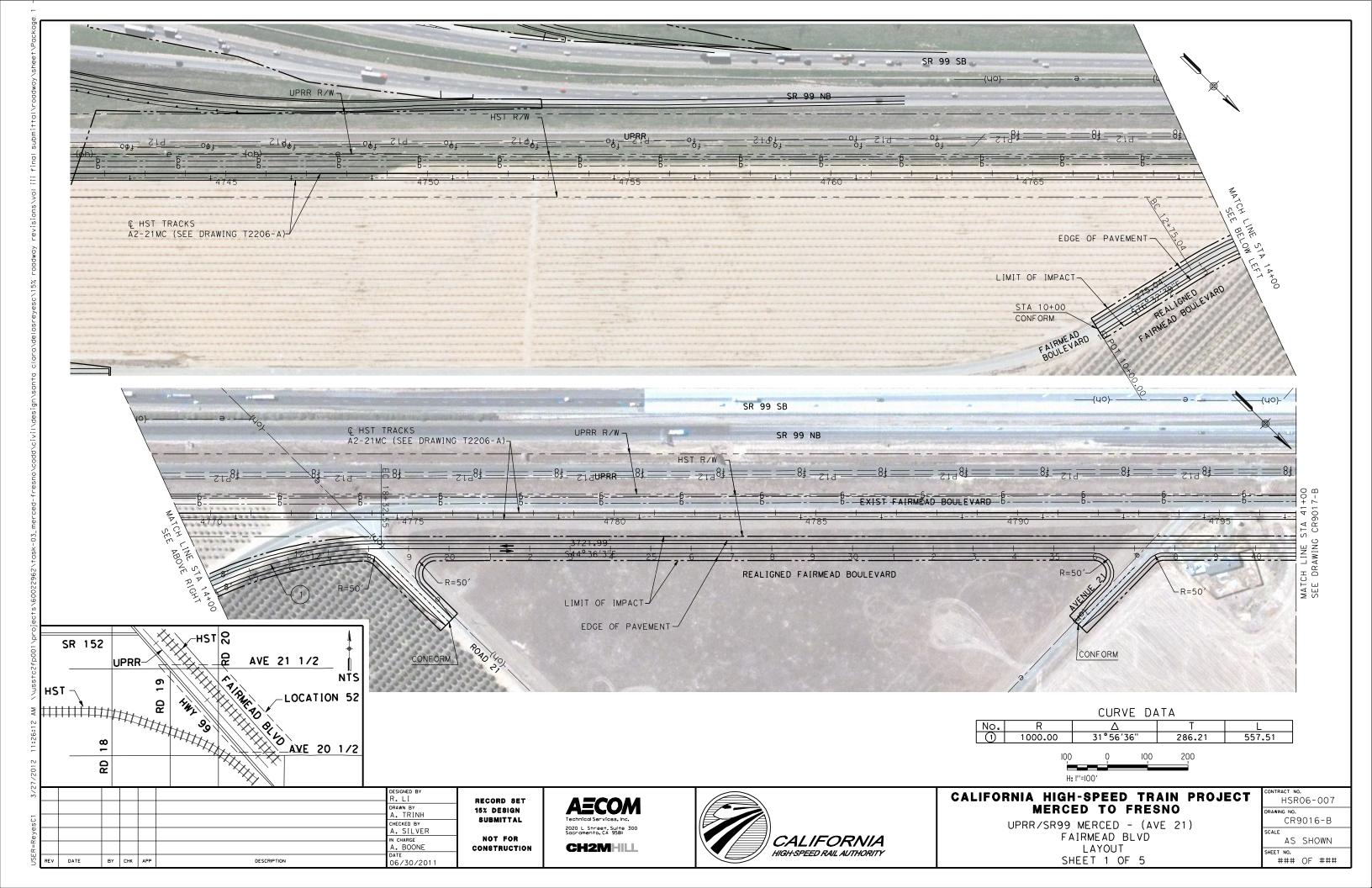
HSR06-007 CR9015-B

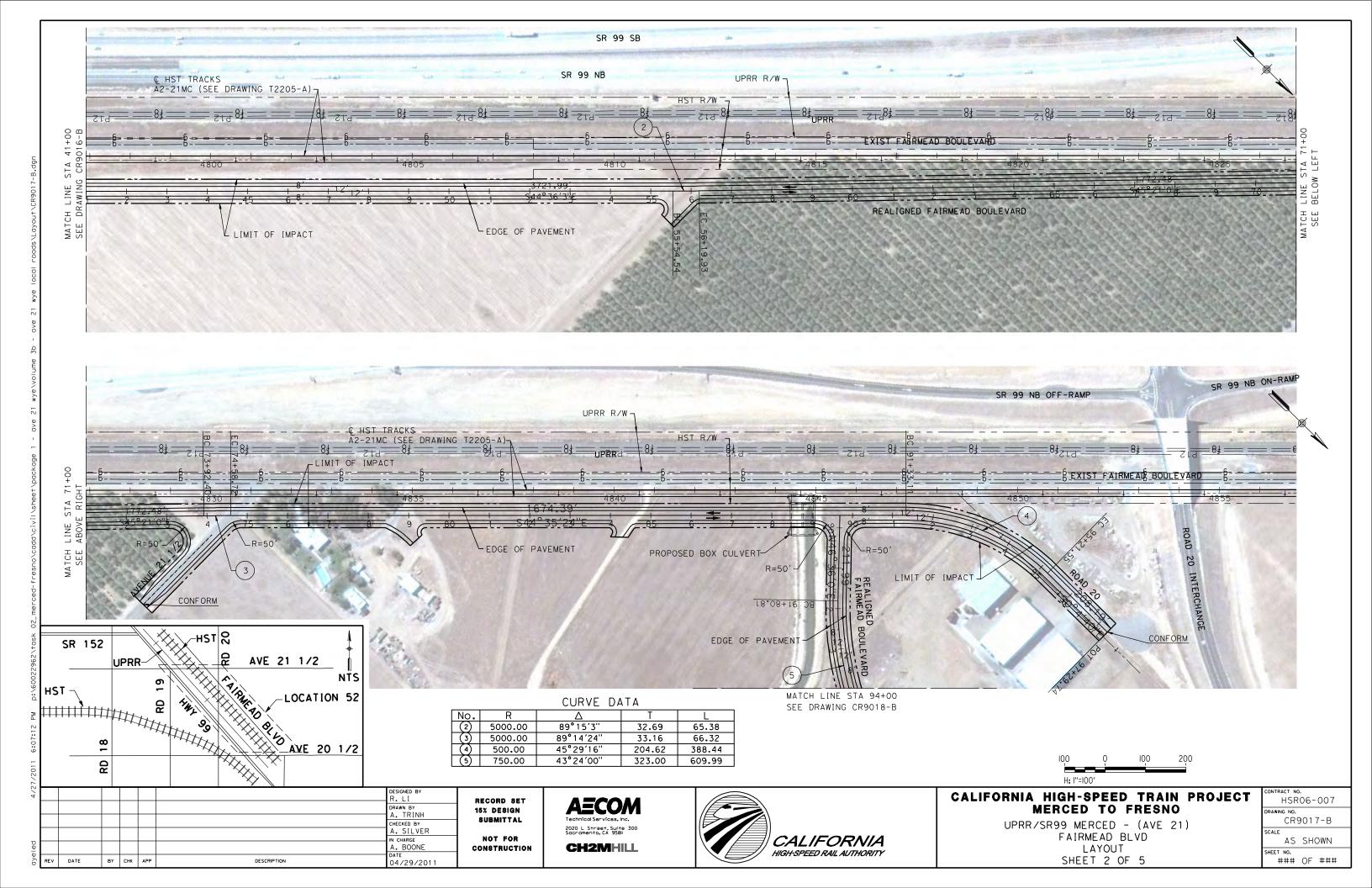
LAYOUT

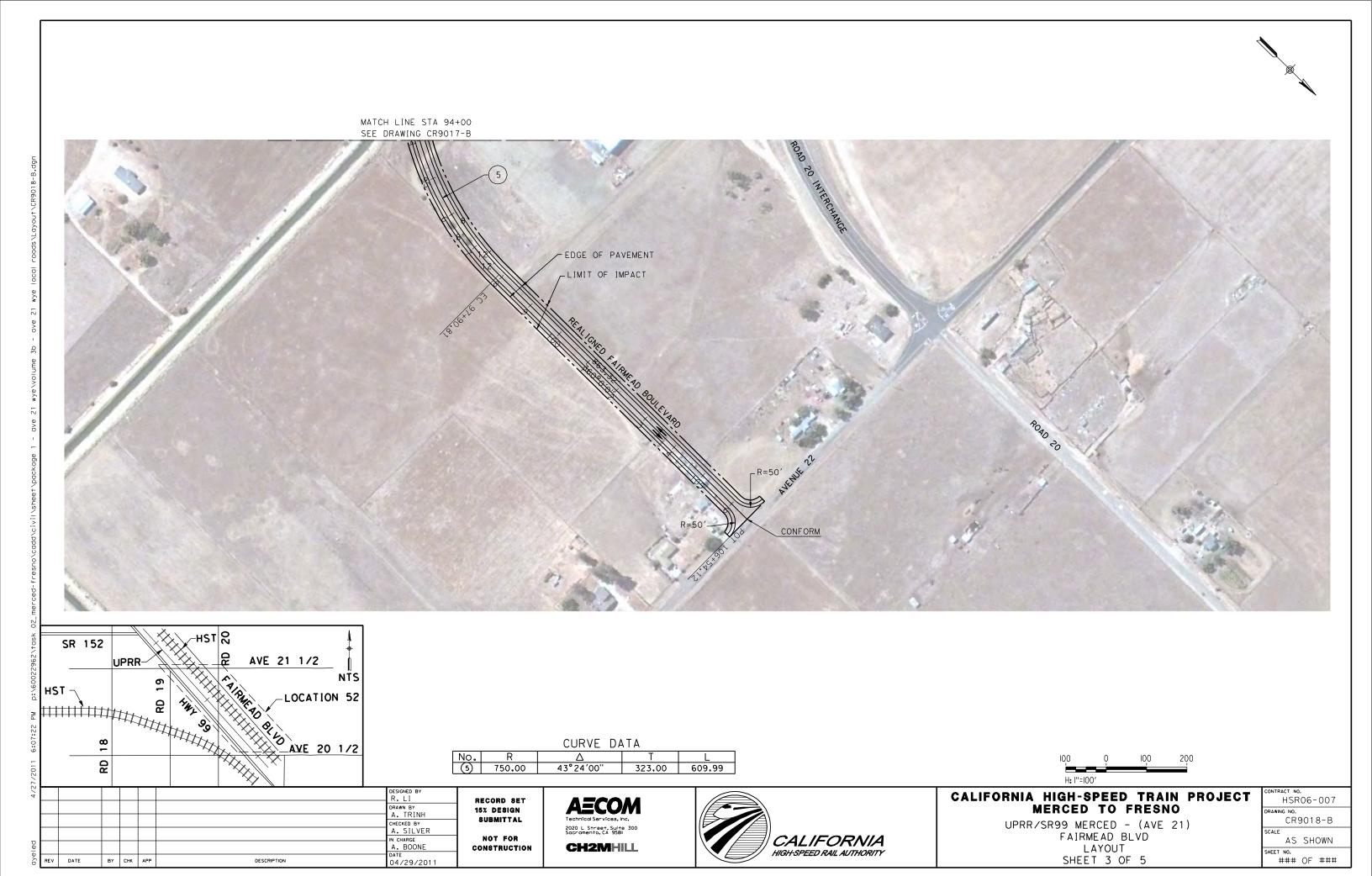
SHEET 1 OF 1

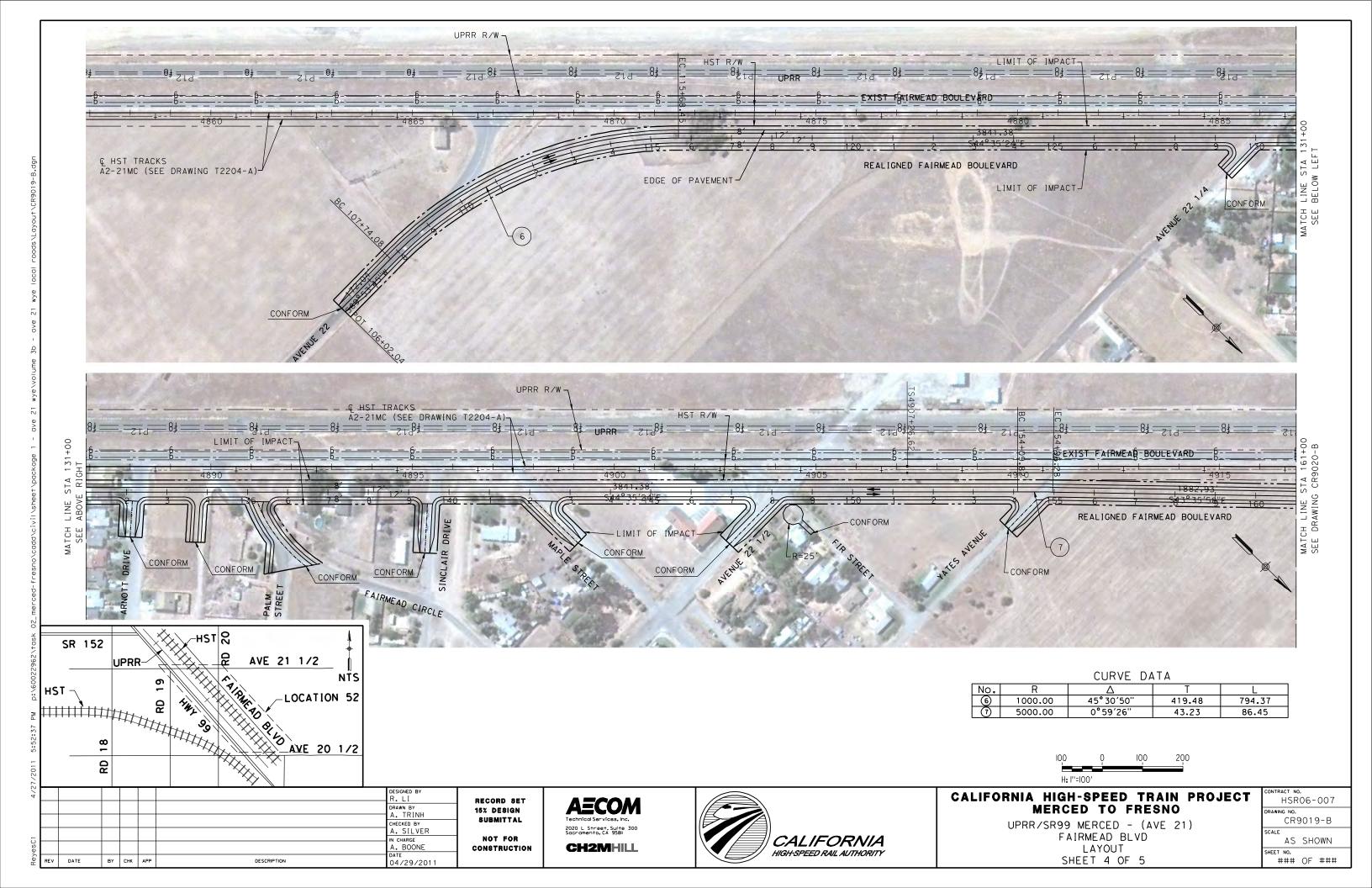
HIGH-SPEED RAIL AUTHORITY

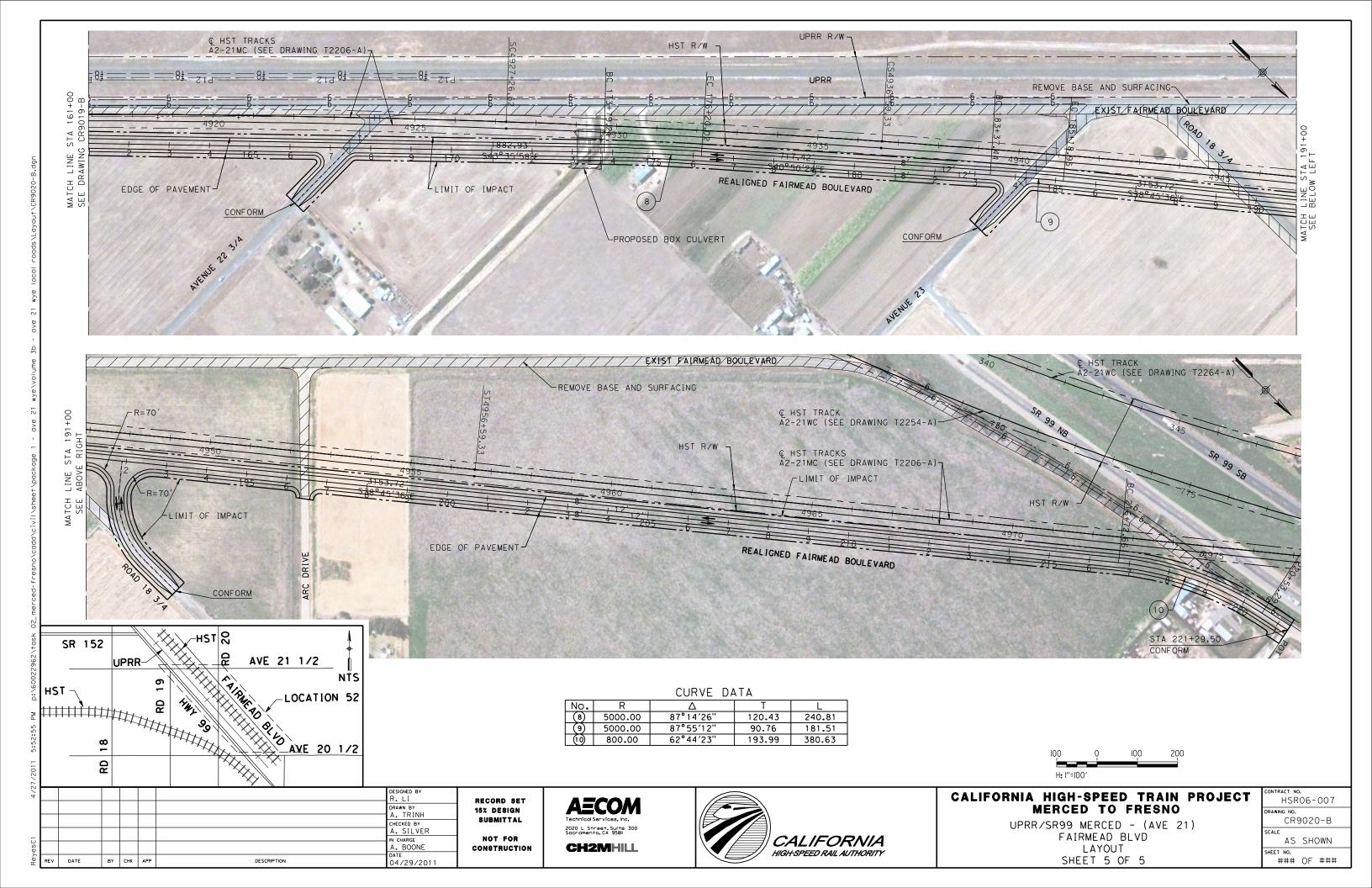
AS SHOWN HEET NO. ### OF ###

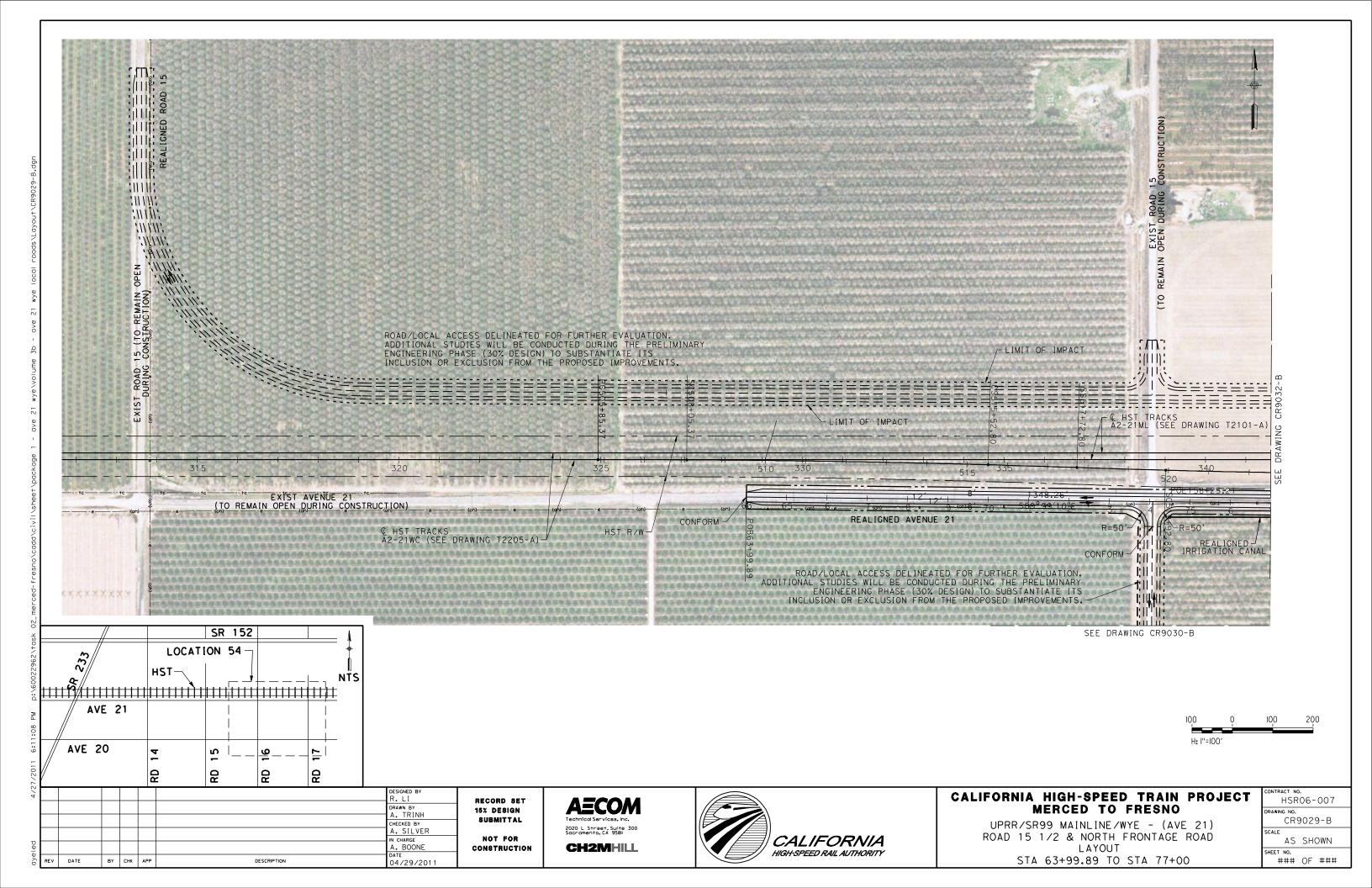




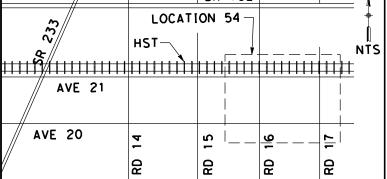








100 0 100 200 H: I"=100'



DESCRIPTION

BY CHK APP

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

R. LI

DRAWN BY A. TRINH

CHECKED BY

A. SILVER

04/29/2011

IN CHARGE A. BOONE AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Socramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

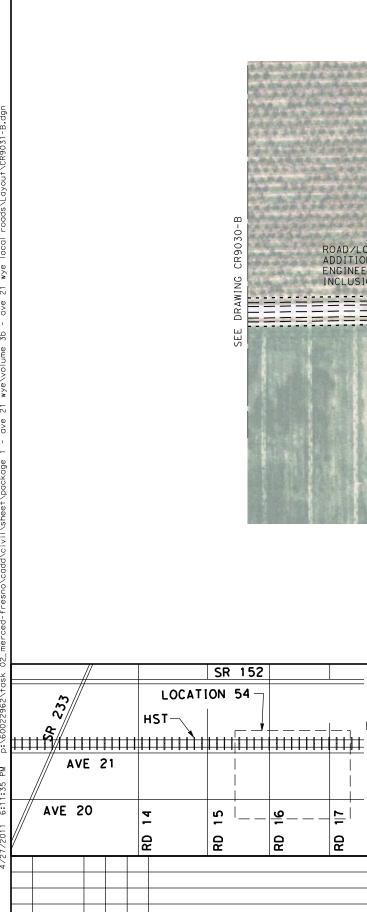
UPRR/SR99 MAINLINE/WYE - (AVE 21) ROAD 15 1/2 & AVENUE 20 1/2 LAYOUT

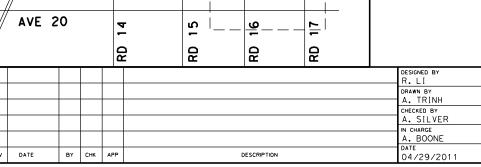
CONTRACT NO.				
HSR06-007				
DRAWING NO.				
CR9030-B				
SCALE				
AS SHOWN				

AS SHOWN

SHEET NO.

OF





SR 152

LOCATION 54

AVE 21

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION **AECOM** 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



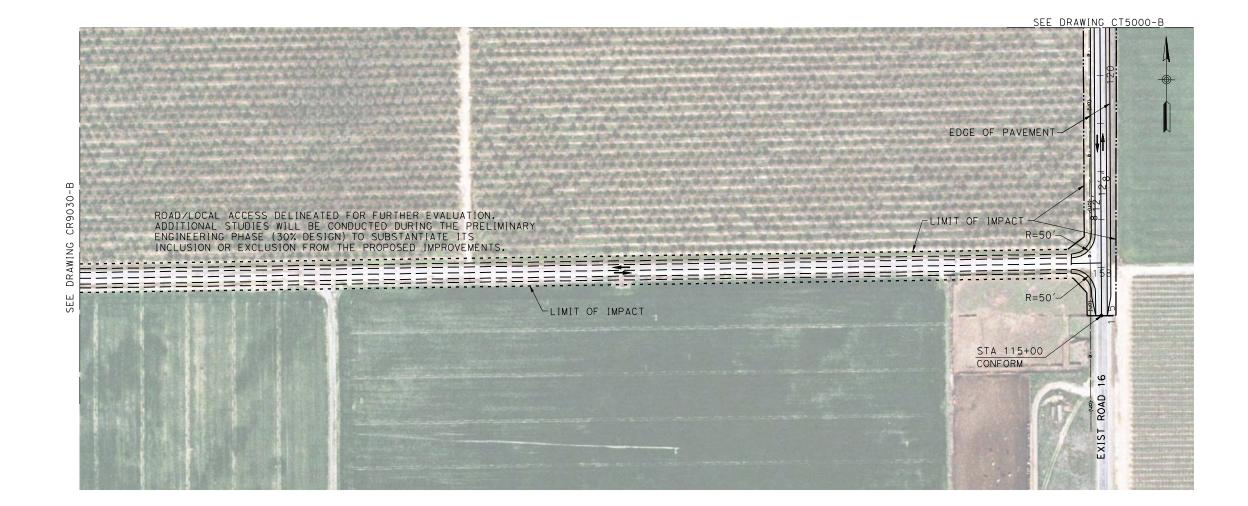


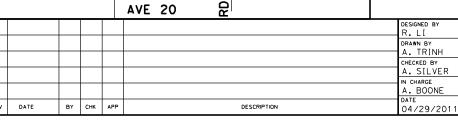
UPRR/SR99 MAINLINE/WYE - (AVE 21) AVENUE 20 1/2 LAYOUT

Т	CONTRA				
•	HSR06-007				
	DRAWIN	G NO.			
		CRS	9031-B		
	SCALE				
		AS	SHOWN		

OF

H: I"=100'





CONSTRUCTION

RECORD SET 15% DESIGN

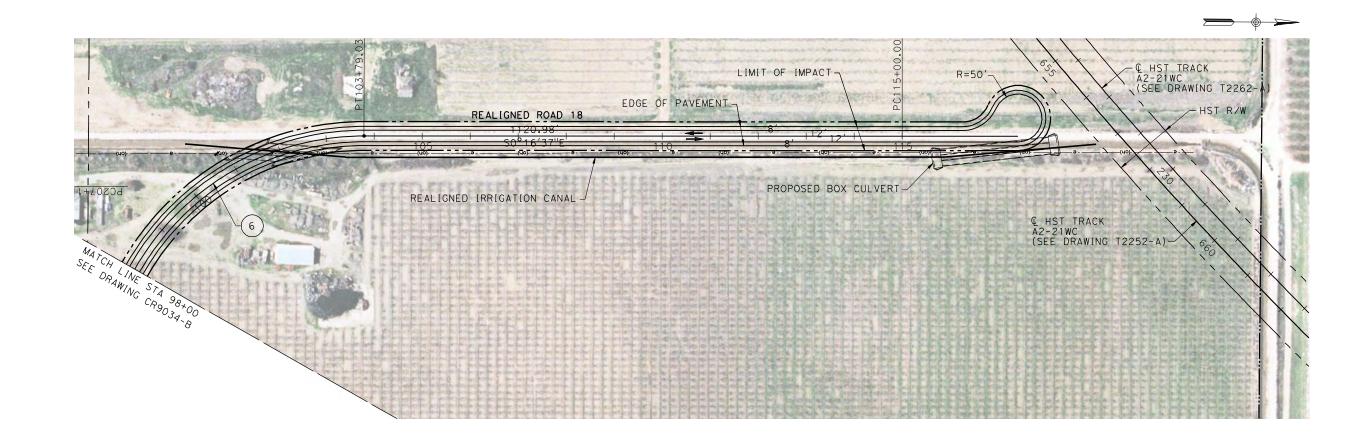
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

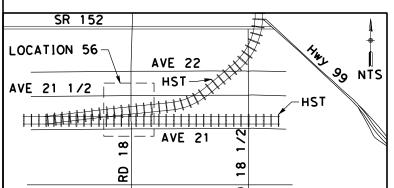


UPRR/SF

CONTRA	ACT NO	٠.		
HSR06-007				
DRAWIN		9035-В		
SCALE	AS	SHOWN		
	DRAWIN	DRAWING NO. CRS		

MEDAED TA EDEAMA	1101100 001
MERCED TO FRESNO	DRAWING NO.
SR99 MAINLINE/WYE - (AVE 21)	CR9035-B
ROAD 18	SCALE AS SHOWN
LAYOUT	SHEET NO.
TA 98+00 TO STA 117+41	### OF ###



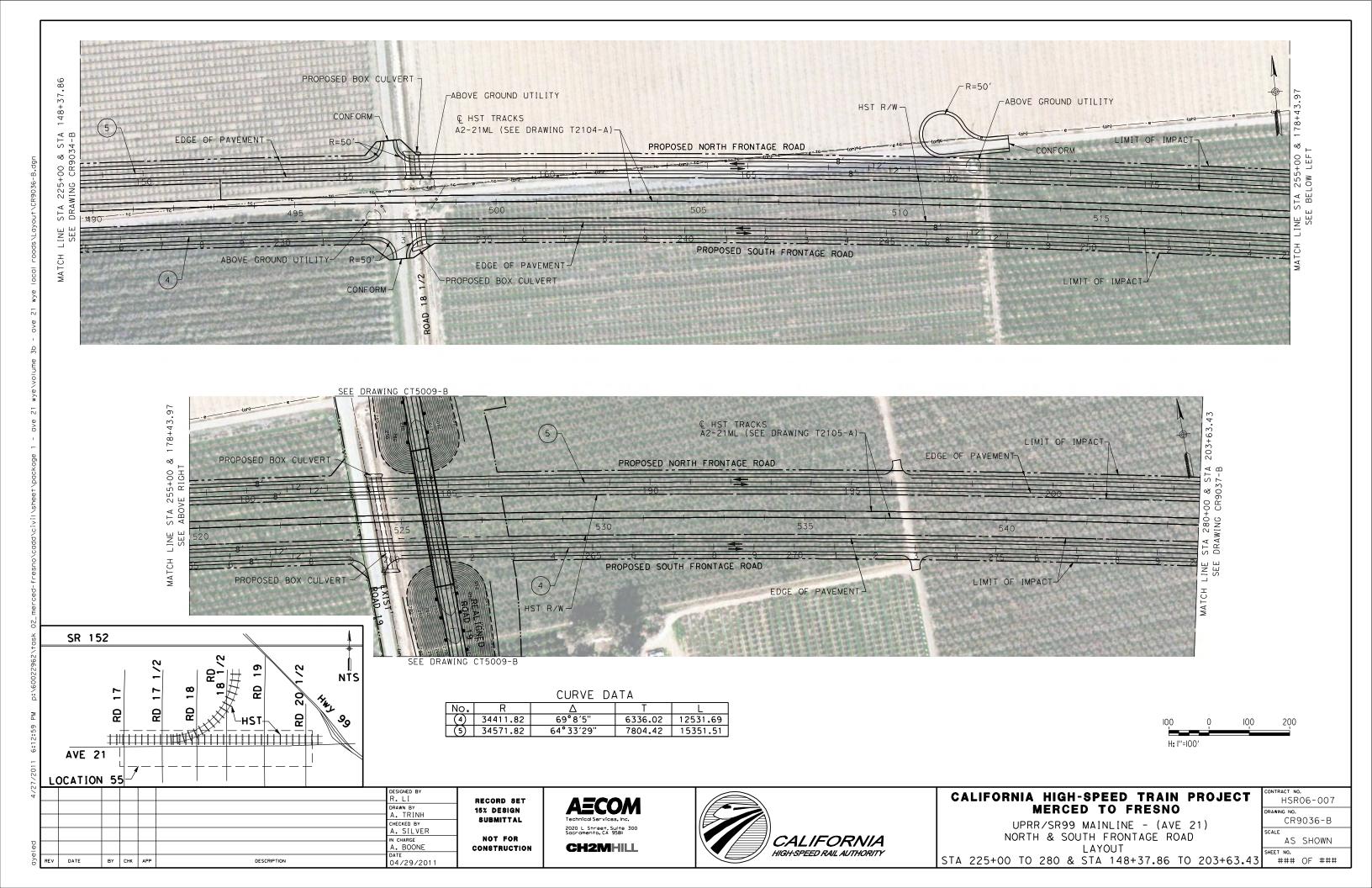


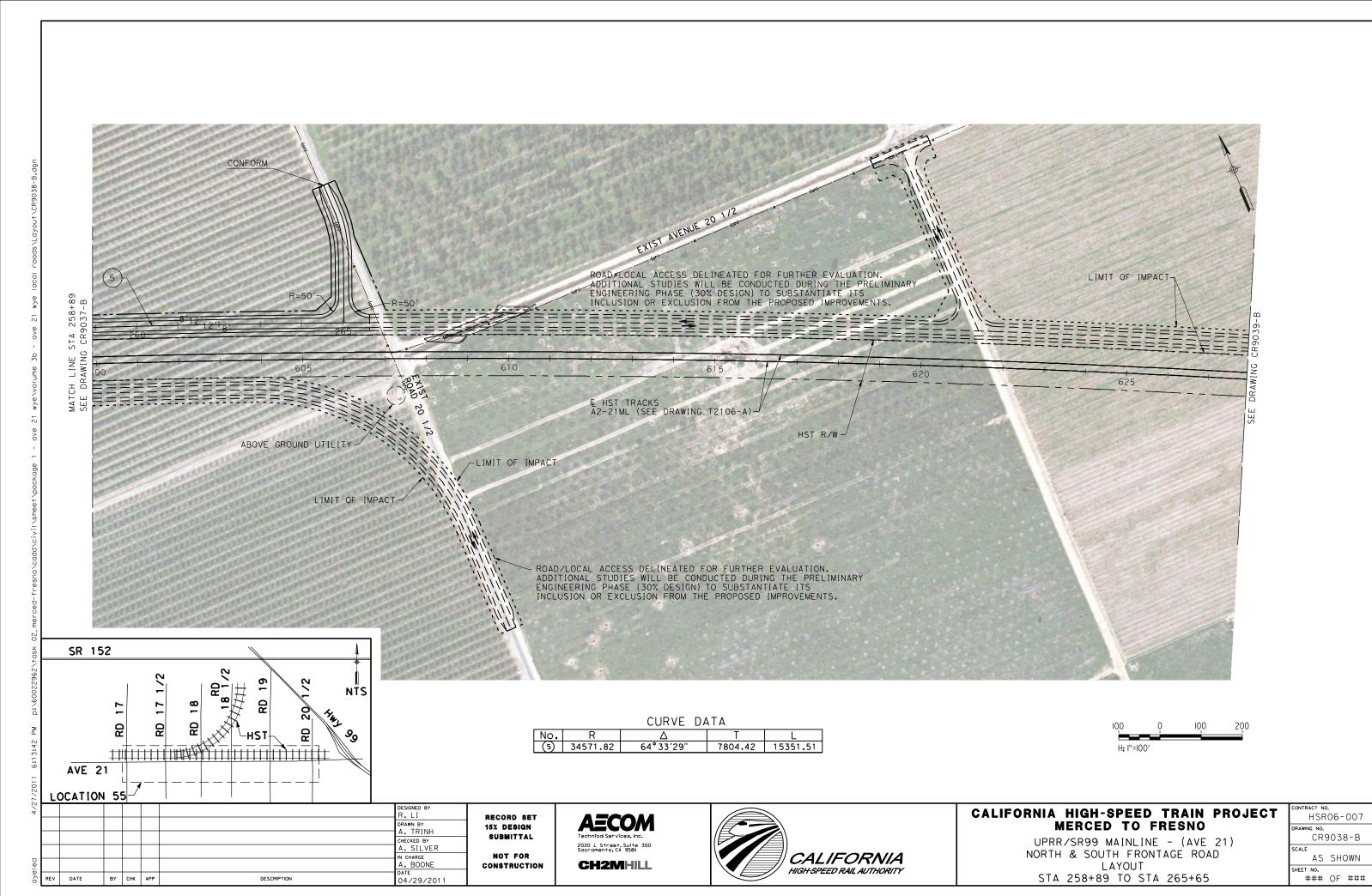
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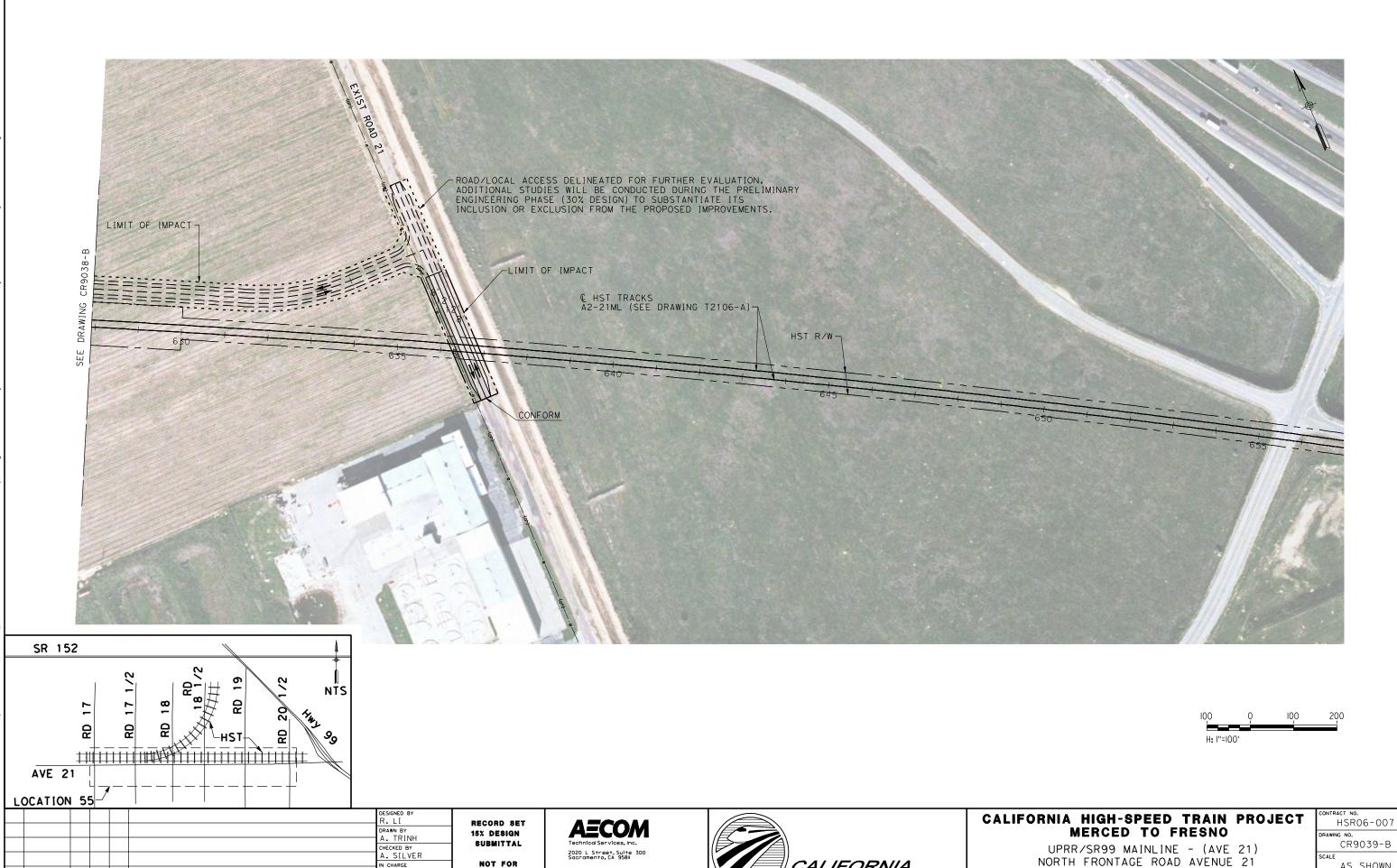
No. 6 ∆ 1°26′55" 550.00 536.27 850.04

SUBMITTAL NOT FOR

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**







CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

NOT FOR

CONSTRUCTION

CH2MHILL

IN CHARGE A. BOONE

04/29/2011

DESCRIPTION

BY CHK APP

AS SHOWN ### OF ###

LAYOUT

